

February 1997



Apple Developer Catalog

HYPERCARD
APPLE MEDIA TOOL
PROGRAMMING
ENVIRONMENT



Apple's media-rich authoring tools—extended for the web.

Launch your favorite Internet browser and open URLs directly from Apple Media Tool 2.1 cross-platform projects. Or run stacks over the web with HyperCard 2.3.5—now shipping more than \$400 of multimedia software tools!



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1 environment

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4
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4
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Symantec Café. Where mere mortals turn into overnight Java Gurus.

See ad on page 21 for product description and prices. For information about Visual Café, please visit the Symantec website.

Symantec Café is available at your local computer store.
For more information call 1-800-282-2732.
Or visit the Symantec Java Central Web Site at <http://cafe.symantec.com>.

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Java Development Tools For Windows and Macintosh™



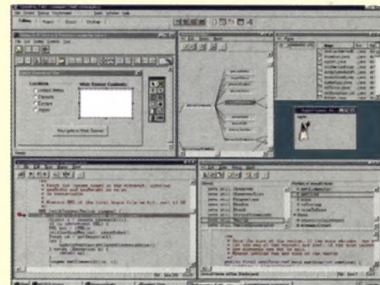
Want to turn your Web site into a dazzling display of Java™ virtuosity? Welcome to Symantec Café.™

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- Includes *Introduction to Java Programming*.



SYMANTEC.®

QuickTime VR Authoring Tools

The authoring tool that is turning 68 million personal computers into virtual worlds.

Apple Computer, Inc.



What is QuickTime VR?

NEW VERSION The award-winning QuickTime VR is revolutionary cross-platform software from Apple, which enables webpage designers and professional developers to create exciting new multimedia products and webpages incorporating QuickTime VR content. With QuickTime VR, users interactively navigate through 360° views of space, and explore three dimensional objects on Macintosh or Windows-based personal computers.

The QuickTime VR 2.0 Authoring Tools Suite

The QuickTime VR 2.0 Authoring Tools Suite is a set of Macintosh tools to create and link panoramas and objects from photographic, digital, video, or computer generated images.

Included is a complete set of documentation for planning, designing, photographing, and creating QuickTime VR panoramas and objects. The authoring tools also allow you to link objects and panoramas using clickable hot spots.

The following are included on the CDs:

- A software tool (MPW-based) that stitches and blends adjacent images into a panoramic PICT file
- A software tool (MPW-based) that dices and compresses panoramic PICT files to less than 100 KB (low resolution) per panorama
- A scene editor (HyperCard-based) to create QuickTime VR scenes by adding and positioning nodes, hot spots, linking nodes together, and for linking QuickTime VR objects to scenes
- A variety of utility tools for formatting the data into the runtime software

Advantages for Developers

Performance

Due to a revolutionary distortion-correcting algorithm, QuickTime VR panoramas and objects maintain a normal perspective when the user moves the mouse. The speed of the algorithm allows up to 24-bit color images. Both vertical and horizontal panning can occur at fast speeds.

Accessibility/Cross Platform Playback

QuickTime VR runs on low-end Macintosh and Windows-based computers.

Small File Sizes

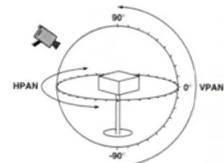
A high resolution 360° view of a panorama requires less than 540 KB.

Interactivity

QuickTime VR 2.0 enables hot spots so any part of a 360° panorama or an object can be active. A wide variety of actions can be triggered—"picking up" a QTVR object, playing a video or audio clip, displaying a photograph or text, or another QuickTime VR panorama or object.

Requirements

Macintosh or Mac OS-compatible computer with a 33 MHz 68040 or greater processor; FPU required for non-PowerPC processors; 40 MB RAM; 10 MB hard disk space; System 7.1 or later (System 7.1.2 required for PowerPC processors); MPW shell (included), HyperCard 2.3 or later; QuickTime 2.5 or later; ResEdit 2.1.1 or later; CD-ROM drive; 832 x 624 resolution monitor; 16-bit video; thousands of colors required for the screen editor.



Minimum Macintosh system required for the runtime software playback

- QuickTime-capable Macintosh with a 25 MHz 68030 or greater processor and 8 MB RAM
- QuickTime 2.0
- System 7.1 or later
- Monitor with 8-bit video (16-bit preferred)
- Double-speed drive required for CD-ROM playback

Minimum Windows system required for the runtime software playback

- QuickTime 2.5 for Windows (expected in March '97)
- Windows 95 or NT
- MPC 2 configuration
 - 33 MHz 80386 processor
 - 8-bit video (16-bit video preferred)
 - 8 MB RAM
- Double-speed drive required for CD-ROM playback

QuickTime VR 2.0 will support 8-, 16-, and 24-bit video.

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SAVE

WITH OUR QUICKTIME VR 2.0 AND VIRTUAL TUTOR FOR QUICKTIME VR BUNDLE

(See page 38 for complete description)

\$539.00

B3003Z/A

Suite 2.0

reality theaters.



The QuickTime VR website, at <http://quicktimevr.apple.com/> has useful information about QuickTime VR, including sample scenes and objects, a QuickTime VR technology paper, illustrations of how the technology works, developer information, and Movie Player 2.5 to view QuickTime VR scenes on the World Wide Web.



What's New!

QuickTime VR 2.0 Authoring Tools and Programming Book/CD-ROM

QuickTime VR 2.0 is programmable! Use the new, \$49.00 book/CD-ROM package, *Virtual Reality Programming with QuickTime VR 2.0*, to write C and C++ programs that use QuickTime VR. These programs allow QuickTime VR to be used in exciting new ways in games, multimedia titles, and other programs.

The *QuickTime VR 2.0 Authoring Tools Suite* adds new capabilities of its own. QuickTime VR 2.0 objects can be zoomed in on, panned, or linked with hot spots. Both panoramas and objects can have hot spots linked to World Wide Web URLs.

QuickTime VR Authoring Tools Suite 2.0

R0629Z/E **\$395.00**

Upgrade from 1.0 to 2.0

R0719Z/A **\$49.00**

Virtual Reality Programming with QuickTime VR 2.0

R0719Z/A **\$49.00**



A W A R D S

September 1996

- New Media Invision Silver Award

March 1996

- Software Publishers Association, 1996 "Codies;" Excellence in Software Awards—Best Programming Tool

February 1996

- Byte Magazine 1995 Editor's Choice Awards, Award of Distinction for Breakthrough Technology
- Point Survey "Top 5% Best Sites of the Internet," Apple Computer and Asian Art Museum of San Francisco website at <http://sfasian.apple.com>

January 1996

- MacWorld 1996 World Class Award Finalist — Best New Technology
- Computer Graphics World, 1995 Editors' Choice Awards, First Place Winner of the CGW's Special Technology Award for Most Innovative Computer Graphics Product

Kaidan

Magellan QuickTime VR Object Rigs



The Magellan 1000 (M-1000) is a mid-sized, manually operated rig capable of handling objects as large as 3 feet in diameter and 100 pounds in weight. Sized to fit on a table or desk, the M-1000 employs an adjustable cantilevered arm

design with a manually cranked gearbox to position the camera arm, and a click-stop adjustable-height pedestal used to support the object being photographed.

The swing arm will accommodate cameras, digital cameras, and camcorders (5 pound maximum weight, 1/4" or 3/8" tripod mounting socket). The gearbox and pedestal both have an angular readout wheel that displays the rotation increment of the swing arm and turntable respectively. The base

structure of the M-1000 serves as a convenient and sturdy work platform and also provides a protective shipping or transport enclosure (42" long x 24" wide x 5" high).

Included with all Magellan Object Rigs are all the necessary software utilities required to create your own QTVR object movies. The M-1000 is designed to be upgradable to the motorized capabilities of the Magellan 1500 (M-1500). The M-1500 and the M-1000 motor upgrade kit are expected to ship early in 1997. Options include a black photographic backdrop (BKDP-1) adapted for use with the Magellan 1000 series and a four-legged support stand (MGSS-1).

Magellan 1000 (M-1000)

T1975Z/A **\$1,995.95**

The Magellan QC is the smallest and most affordable member of the Magellan family. Capable of handling objects as large as eight inches in diameter and seven pounds in weight, the Magellan QC is the perfect choice for those needing to capture small objects at a reasonable price. The Magellan QC is designed to exploit the capabilities of the recently announced Connectix Color QuickCam digital cam-

era for QTVR object capture.

The Color QuickCam's close focusing capability (one inch to infinity), 640 x 480 resolution, 24-bit color support, convenient size, and low cost make it an ideal camera for QTVR object movies. The Magellan QC uses the same proven manual click-stop components used on Kaidan's line of QuickPan Tripod heads. As with all Magellan products, the QC comes with all necessary software required to create QTVR movies right out of the box. Thus, with the Magellan QC and the Color QuickCam combination, a complete QTVR object movie solution is possible for just over \$600. Color QuickCam camera is not included.



Magellan QC (M-QC)

T1974Z/A **\$399.95**

Please see the following page for more information on Magellan accessories and other Kaidan products.

Kaidan

QuickPan QuickTime VR Panoramic Tripod Heads



QuickPan Professional QP-4

The QuickPan Professional (QP-4) is Kaidan's top-of-the-line QTVR panoramic tripod head. It consists of the QP-1B base unit and the QPU-1 Universal Camera Bracket. The QuickPan Pro is designed for the professional and provides a sturdy platform for any camera and

Kaidan's QuickPan Accessories, such as the Extension Tube (QPE-1) and the Stereo Camera Bracket (QPST-1). The QuickPan Pro will accept most standard 35mm SLR and rangefinder cameras as well as digital cameras and camcorders.

The QP-1B base has a built-in tilt-adjusting capability that uses two convenient thumbwheels to adjust the unit for proper leveling. A precision bubble level, mounted on the stationary base, provides a clear indication when the unit is level. The QP-1B indexing disc provides five standard angular increment settings (8, 12, 16, 20, and 36). A free-rotation locking knob can also be used to provide free-rotation and locking at any angular interval. The base has two tripod mounting threads: $\frac{1}{4}$ -20 & $\frac{3}{8}$ -24 (European).

The QPU-1 Universal Bracket comes with easy to use adjusting clamp levers and calibrated scales along the two adjustment axes. The scales make it easy to record various settings for different camera and lens combinations. Also included is a two-axis hot-shoe bubble level that attaches to your camera to ensure that it's level in elevation.

QuickPan Pro with Tilt (QP-4)

T1978Z/A

\$589.95

The QP-6 (not pictured) is the non-tilt version of the QP-4. It has the same heavy-duty 5-inch detent wheel, indexing mechanism, bubble level, and locking mechanism as the QP-4, but is more compact and lighter. It also comes standard with a one-way rotation clutch that helps you take the photos in the proper sequence.

QuickPan Pro without tilt (QP-6)

T2045Z/A

\$489.95

QuickPan QP-5

hot-shoe bubble level that attaches to your camera to ensure that it's level in elevation.

QuickPan (QP-5)

T2044Z/A

\$399.95

The QuickPan (QP-5) is Kaidan's standard QTVR panoramic tripod head. It consists of the QP-1C base and the QPU-1 Universal Camera Bracket. The QP-5 is designed to be affordable yet extensible. The QP-5 will accept most standard 35mm SLR and rangefinder cameras as well as digital cameras and camcorders.

The QP-1C base has a precision bubble level, mounted on the stationary base, which provides a clear indication when the unit is level. The standard QP-1C detent wheel provides five standard angular increment settings (8, 12, 14, 16, and 18). An option-

al QPD-2 detent wheel provides an additional five settings. A free-rotation locking knob can also be used to provide free-rotation and locking at any angular interval. The base has a standard $\frac{1}{4}$ -20 mounting thread.

The QPU-1 Universal Bracket comes with easy to use adjusting clamp levers and calibrated scales along the two adjustment axes. The scales make it easy to record various settings for different camera and lens combinations. Also included is a two-axis

QuickPan Components and Accessories

T1848Z/A	QPA-1	Apple QuickTake Bracket (use with any QuickPan to locate the QuickTake without adjustment)	\$99.95
T1982Z/A	QPST-1	Stereo Mounting Bracket (mounts two cameras side-by-side for stereo imagery, QP-4 and QP-6 only)	\$399.95
T1852Z/A	QPD-2	Detent Wheel, Optional for QP-5 (10, 15, 20, 24, and 36 positions)	\$39.95
T2043Z/A	QPDD-2	Detent Wheel, Optional for QP-4 & QP-6 (10, 14, 18, 24, and 30 positions)	\$49.95
T1903Z/A	QPE-1	Extension Tube, 8 foot, for QP-4 & QP-6 (supports the camera up to 8 ft above the pan head)	\$299.95

Magellan Components and Accessories

T1976Z/A	BKDP-1	Photographic Backdrop for Magellan 1000 (black velour drape with two support posts)	\$299.95
T1977Z/A	MGSS-1	Support Stand for Magellan 1000 (sturdy support legs that attach to underside of M-1000)	\$299.95
T2042Z/A	M-QCD	Magellan QC Detent Wheels (pair of detent wheels with 8, 12, 14, 16 and 18 positions)	\$74.95
T2041Z/A	M-QCP	Magellan QC Pedestal Set (two extra pedestal assemblies, one 2.5" and one 6")	\$39.95
T2043Z/A	QPDD-2	Detent Wheel, 5-inch for Magellan 1000 (10, 14, 18, 24, and 30 positions)	\$49.95

Orders are shipped within 24 hours. **Order Monday through Friday, 7am-5pm, PST.** U.S.: 1-800-282-2732

Apple Media Program

The *Online* media information source for technology, tools, resources, and the new media developer community.

<http://www.amp.apple.com>

Designed for content developers and the creative community, the Apple Media Program (AMP) offers a breadth of resources and information to keep new media developers up-to-date on Apple's offerings for authoring and playback. Access to these resources is available on the World Wide Web, through the Apple Multimedia Information Mailing, and by joining the Apple Media Program.

AMP Website

AMP benefits and resources are delivered online via the AMP website. Resources for developers include demonstrations, survival guides, tools, white papers, multimedia guides, market research reports, and success stories. These materials may be downloaded directly from the AMP website or from the quarterly CD.

Members Only Area

The special Members Only area provides members first access to the latest information available, co-marketing opportunities, and discounts on multimedia events, training, and third-party products. AMP members also receive seeding opportunities and development hardware purchasing privileges with the option to buy a designated number of Apple products at a discount to facilitate initial development. (Option not available in all countries.)

Apple Multimedia Information Mailing

Members receive a starter kit with materials that focus on the needs of the new media community, including *Multimedia Demystified* from the Apple New Media Library series published by Random House. Quarterly mailings include a newsletter and CD packed with information, demos, and resources to keep at your fingertips. The Apple Multimedia Information Mailing can be ordered separately.

Technical Support

AMP members primarily rely on the Apple Multimedia Information Mailing and online resources for information and services. For those who occasionally need programming-level (code-level) technical support, the ability to purchase individual questions is available. All questions are submitted and answered by e-mail.



How to Join

The annual fee for the Apple Media Program is US \$300. For more information, or to obtain an application, contact any of the following:

Internet devsupport@apple.com

Web Site <http://www.amp.apple.com/>

Phone 408/974-4897

If you are located outside North America, see page 36, or check

<http://www.amp.apple.com/program/intl.html>.

Requirements

To run quarterly CDs, a Macintosh or Mac OS-compatible computer with System 7 or later and a CD-ROM drive is required.

Apple Multimedia Information Mailing

New Subscription

(Starter Kit & three quarterly mailings)

R0494LL/A (PAL) **\$149.00**

R0495LL/A (NTSC) **\$149.00**

Subscription Renewal

(Four quarterly mailings)

R0496LL/A (PAL) **\$149.00**

R0497LL/A (NTSC) **\$149.00**

⚠ This product may contain Class 1b beta release products and Class 2 restricted products. Beta releases of products are not fully tested and documented, but are expected to be completed in the future. Class 2 products are not tested and documentation may still be in preliminary draft form.

Multimedia Labs, Inc.

Book AMP Model TC1500

The TC1500 Portable Light Weight AMP System is specifically developed for use with everyday high fidelity multimedia desktop applications and multimedia notebook public address presentations. Remote control functions include: volume up and down; power on/off; and mute for instantaneous sound off.

Unique (patent pending) 4" side fire speakers which now incorporate advanced speaker material from DuPont, make the TC1500 the most logical source for presentation sound. The system also offers low weight carry factor of eight pounds and remote control.

Features

- Micro size AMP: 1 1/2" x 7" x 6"
- 12 watts RMS/CH at 1% THD; 1 KHz
- Palm size remote control
- 1/4" microphone and headphone jacks
- Dual power meter
- Mic mixing control and stereo-mono SW

URL <http://www.multimedialabs.com/>

Requirements

Macintosh or Mac OS-compatible computer; 4 MB RAM; must be multimedia equipped for stereo use.

T2023Z/A

\$129.95

Elektroson, Inc.

GEAR Multi-OS CD-R Mastering Software

GEAR Desktop Multi-OS CD-R software is the most comprehensive CD recording software package for title development, premaster testing, audio applications, prepress storage, and mission critical archiving.

Features

- CD Formats Supported: ISO 9660 (up to 37 characters); HFS Partitions; Shared Hybrid (ISO/HFS); XA, XA Interleaving; CD-I, Video CD files; Digital Audio & Mixmode; Enhanced CD (CD+); Multi-session; Game Titles; Custom Image Mastering; DDP, ANSI X3.27-1987 Output
- Disc-at-once, Track-at-once
- Support for virtually all CD recorders
- Multi-platter jukebox and transporter support

URL <http://www.elektroson.com/>

Requirements

Macintosh: Macintosh or Mac OS-compatible computer with a 68040 or greater processor; 8 MB RAM; 2 MB hard disk space; System 7 or later; CD-Recorder or tape unit; 12 millisecond or less HDD (non-thermal recalibration) for Image Management.

Windows 95, NT, 3.1: IBM or IBM-compatible computer with a 80486 or greater processor; 8 MB RAM; 2 MB hard disk space; MS Windows version 95, NT, or 3.1; Busmaster SCSI Adaptor; 12 millisecond or less HDD (non-thermal recalibration) for Image Management.

OS/2 Warp: IBM or IBM-compatible computer with a 80486 or greater processor; 8 MB RAM; 2 MB hard disk space; OS/2 Warp version 3.x; Busmaster SCSI Adaptor; 12 millisecond or less HDD (non-thermal recalibration) for Image Management.

T1827Z/A

\$399.00

Apple Computer, Inc.

Apple Media Tool 2.1

NEW
VERSION

Bring your interactive visions to life! With Apple Media Tool, you can easily create dynamic interactive multimedia projects for both Macintosh and Windows platforms. This object-based multimedia authoring software, using familiar screen, map, and storyboard metaphors, allows users to drag-and-drop media elements (QuickTime VR, QuickTime movies, pictures, words, and sounds) and easily add interactivity without scripting. You don't have to be a programmer or even learn a scripting language to create multimedia catalogs, support and training modules, music titles, interactive advertisements, and networked kiosks.

The new 2.1 version supports a broader array of objects, events, commands, and effects. Enhancements include extended support for QuickTime VR and QuickTime movies, expanded user interface control, dynamic media switching, flexible cursor setting, and the ability to launch separate applica-

tions, including Internet browsers and open web site URLs from Mac OS and Windows AMT run-times. Additional features may be customized into Apple Media Tool by its companion product, Apple Media Tool Programming Environment. No licensing fees are required to distribute Apple Media Tool runtime titles. For additional information visit the AMT website at: <http://amt.apple.com/>



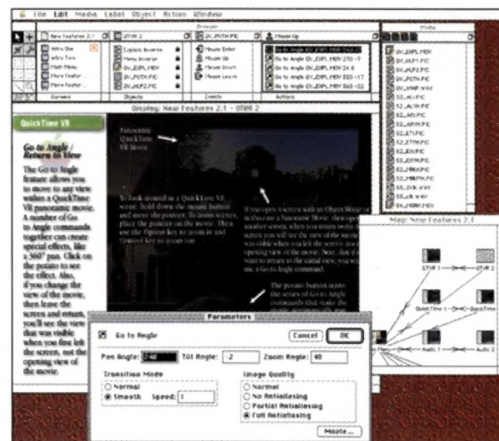
Requirements

Macintosh or Mac OS-compatible computer (PowerPC processor strongly recommended), 8 MB RAM (12 MB recommended); System 7.1 or later; QuickTime 2.5 (included) or later; CD-ROM drive.

SAVE

GET THE SELF-
PACED TRAINING
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AMT
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OF AMT!



Apple Media Tool 2.1

M3871Z/C

\$495.00

Apple Media Tool 2.1
(Upgrade from 2.0 to 2.1)

M3955Z/C

\$75.00

Apple Media Tool 2.1 Demo CD

L00662/D

\$10.00

Apple Computer, Inc.

Apple Media Tool Programming Environment 2.1

NEW
VERSION

This object-oriented language and application framework allows software engineers to take a key role on multimedia production teams by leveraging their programming abilities to customize Apple Media Tool features, and to extend and optimize AMT projects. By tightly linking content creation with the programming process, development time can be dramatically reduced, enabling greater attention to content quality.

Unlike conventional scripting languages, AMPTE is a truly

object-oriented language and application framework that runs with the Macintosh Programmer's Workshop (MPW). Apple Media Language is easy to maintain, easily integrated with code written in C, and compiles for both Mac OS and Windows environments while providing access to the Macintosh and Windows toolboxes through a C language interface. Because the programming environment doesn't require the programmer to adapt to tools designed for content producers, the programming team has a virtually limitless range of options for customization and enhancements. AMPTE 2.1 reflects new features in AMT 2.1. No licensing fees are required to distribute Apple Media Tool runtime titles. For additional information visit the AMT website at: <http://amt.apple.com/>

NOW
INCLUDES

required MPW
software and
documentation as
well as QuickTime
and QuickTime for
Windows

Requirements

Macintosh or Mac OS-compatible computer with a PowerPC processor strongly recommended, 8 MB RAM (12 MB recommended); System 7.1 or later; QuickTime 2.5 (included) or later; CD-ROM drive.

Apple Media Tool Programming
Environment 2.1

H0108Z/D

\$995.00

Apple Media Tool Programming
Environment 2.1
(Upgrade from AMPTE 2.0 to 2.1)

M4068Z/C

\$145.00

SAVE

WITH OUR APPLE
MEDIA TOOL AND
MEDIA TOOL
PROGRAMMING
ENVIRONMENT BUNDLE.

B1453Z/E

\$1,190.00

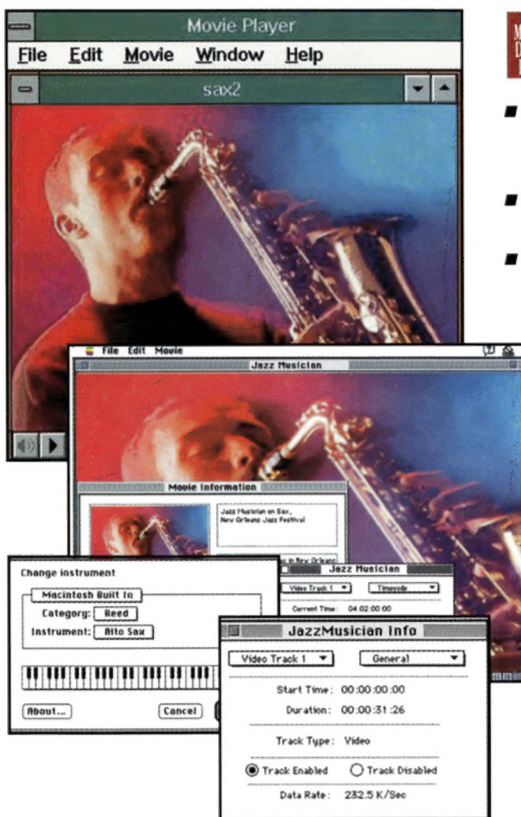
UPGRADE BUNDLE
FROM 1.X OR 2.0 TO 2.1

B2768Z/B

\$195.00

Apple Computer, Inc.

QuickTime Developer's Kit 2.0



Now you can give your Macintosh and Windows applications real-life motion and sound. Macintosh environment features:

- QuickTime 2.0 Extension, QuickTime Power Macintosh Extension, and QuickTime Musical Instruments extension
- Utilities like MoviePlayer 2.0, 16-bit Audio Compression and more
- Sample content such as MPEG Movies, Music Movies, Time-Code Movies, and 60 field per second movies
- New sample code and headers

Includes software-only playback features such as faster 2x playback mode for current compressors, Apple Cinepak compressor, 1-bit fast dithering, network tuning, load-into-RAM option, and Photo CD support.

Macintosh-based Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 2 MB RAM (4 MB RAM recommended for System 7); 40 MB hard disk space; System 6.0.7 or later; CD-ROM drive.

See Related Products:

MovieStar from Intelligence at Large on page 21.

Web-Motion from Terran Interactive on page 22.

Windows-based Requirements

IBM or IBM-compatible computer with 386SX or greater processor; 4 MB RAM; 40 MB hard disk space; CD-ROM drive; VGA or better graphics card; sound card; Windows 3.1 and DOS 5.0.

Special User Notes

Virtual memory may cause movies to play improperly. The Windows-based product is implemented as a set of Windows Dynamic Linked Libraries (DLLs). QuickTime uses the same API, movie files, decompressors, and human interface as are supported on the Macintosh and also supports Windows MCI (Media Control Interface) and OLE (Object Linking & Embedding), Visual BASIC, and Visual C++ and includes a Macintosh/Windows hybrid CD-ROM.

Licensing Note

Call Apple Software Licensing at 1-512-919-2645 for licensing details.

R0147LL/D

\$99.00

Apple Computer, Inc.

Apple MPEG Starter Kit

The Apple MPEG Media System is an MPEG-1 hardware playback card that plays back digital video at 30 fps in 16-bit YUV color and with 16-bit CD sound. The Apple MPEG Media System, utilizing the C-Cube CL450, allows enough bandwidth for even an affordable 68040 CPU to smoothly play the most interactive MPEG games and titles.

The Apple MPEG Media System is tightly integrated with QuickTime—so standard QuickTime calls work every time. This means that existing titles can be quickly and effortlessly ported over to MPEG. In addition, chapter navigation support is built right in so Laser Disc content can be easily adapted.

The MPEG card is user installable into the LC PDS slot found on the Macintosh 630 series of computers, the Macintosh 580 series of computers, and the Power Macintosh 5200, 5300, 6200, and 6300 series of computers.

Features

- MPEG-1 playback card
- MPEG software extensions
- Five bundled MPEG titles
- MPEG developer's brief
- Sample MPEG bitstreams

Requirements

Macintosh or Mac OS-compatible computer with a 68040 or greater processor; 8 MB RAM; 2 MB hard disk space; System 7.5 or later; LCPDS and video slot; AppleVideo or TV/Video system.

M3763LL/A

\$249.00

Books and References

For books and references in the Multimedia category, see pages 40 and 44.

Equilibrium

DeBabelizer Toolbox 1.6.5

DeBabelizer Toolbox is a robust, versatile application that saves time, effort, and money by offering automated graphics processing, image manipulation, and unrivaled cross-platform file translation capabilities—all in a single, integrated application. This award-winning product includes dozens of essential editing tools for automated image processing while also providing extensive translation for over 90 bit-mapped graphics and animation formats for Macintosh, PC (DOS and Windows), Amiga, SGI, and SUN workstations. Support for the interlaced GIF format, as well as JPEG, GIF Animator, and PNG are now included, making DeBabelizer an essential tool for webpage creation. Prepare web graphics automatically with ProScripts™ and exclusive SuperPalette™ technology. Also featured is unsurpassed 24-bit to 8-bit color reduction and comprehensive palette controls. Integrated batch processing and internal scripting save time by automating repetitive editing and manipulation tasks.

URL <http://www.equil.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 2.6 MB RAM; 2.6 MB hard disk space; System 6.0.7 or later.

Note

Product is available through catalog to U.S. customers only. Customers located outside the U.S. should contact the manufacturer for resellers in their area.

Single User

T1906LL/A (U.S. only)

\$289.00

Apple Computer, Inc.

QuickTake Software Developer's Kit



The QuickTake Software Developer's Kit gives the application developer the ability to take total software control of the QuickTake 150 and QuickTake 100 digital cameras. Through included APIs in the SDK, the developer can create applications that control camera functions including image capture; change quality or resolution settings; set the timer; delete images; download images or view thumbnails; and change flash settings. The SDK can be used to develop QuickTake savvy applications, OpenDoc components, plug-ins, HyperCard XCMDs, or OLE servers.

Requirements

Macintosh: Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 5 MB RAM; 10 MB hard disk space; System 7.1 or later. **Power Macintosh:** Power Macintosh or Mac OS-compatible computer with a PPC 601 or greater processor; 8 MB RAM; 10 MB hard disk space; System 7.1 or later.

Windows: IBM or IBM-compatible computer with a 80386 or greater processor; 2 MB RAM; 10 MB hard disk space; Windows 3.1, DOS 3.0 or later. A QuickTake camera is required for application development and testing.

R0597LL/B

\$49.95

Allegiant Technologies, Inc.

SuperCard 2.5 Multimedia with MegaStudio CD-ROM

SuperCard 2.5 is the fastest, most powerful authoring tool for assembling and delivering world-class multimedia content and custom interactive applications. Save money and get a complete multimedia production bundle all on one CD-ROM! CD includes: SuperCard 2.5 (Authoring); Avid VideoShop 3.0 (Video Editing); Specular LogoMotion (3D and Animation); Opcode AudioShop 2.1 (Sound Editing); Gryphon Morph 2.5 (Special Effects); and Specular TextureShape (Content). SuperCard offers direct script control over all objects: paint and draw graphics, menus, windows, sounds, QuickTime movies, even Director animations. Automatically converts HyperCard stacks to SuperCard projects. Use for computer-based training and simulations, interactive and multimedia presentations, educational research, and applications development.

URL <http://www.allegiant.com/>

Requirements

Macintosh or Mac OS-compatible computer with 68020 or greater processor; 2 MB RAM for black and white applications; 4 MB RAM for color applications; 10 MB hard disk space; System 7.0 or later (7.1 or later for text-to-speech; QuickTime 2.0 or later for movies); CD-ROM drive.

T1815Z/A

\$399.00

Arboretum Software Systems, Inc.

Hyperprism-PPC Real-Time Sound Effects Processing Software



Hyperprism-PPC is a highly flexible and creative effects processing software for the Power Mac. Its unique Blue Window interface allows for on the fly, "analog-like" gestural control over effects processing. No additional audio hardware is required.

Features

- Over 20 real-time high quality effect algorithms
- I/O also possible via Digidesign audio cards
- Supports Sound Designer II and AIFF file formats, standard sample rates, 8- and 16-bit resolution
- Non-destructive, multipass processing
- Now includes Premiere plug-ins

URL <http://www.arboretum.com/>

Requirements

Power Macintosh or Mac OS-compatible computer with a PPC 601 or greater; 8 MB RAM; 1 MB hard disk space; System 7.1 or later; Sound Manager 3.1 or later preferred.

T2016Z/A

\$379.00

Allegiant Technologies, Inc.

SuperCard 2.5

SuperCard 2.5 is ideal for creating computer-based training and education projects, authoring applications and CD-ROM titles, developing multimedia brochures, and more. SuperCard uses an easy-to-grasp scripting language that rewards your learning with the extraordinary power to create "double-clickable" stand-alone applications.

SuperCard offers direct script control over all objects: paint and draw graphics, menus, windows, sounds, QuickTime movies, even Director animations. It automatically converts HyperCard stacks to SuperCard projects.

Features

- 24-bit color support
- Enhanced QuickTime capabilities
- Transition effects; backdrop windows
- Sound termination; script insertion
- Object-based memory testing
- Environment functions
- Expanded menu support
- New runtime editing features

URL <http://www.allegiant.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 2 MB RAM for black and white applications; 4 MB RAM for color applications; 10 MB hard disk space; System 7.0 or later (System 7.1 or later required for text-to-speech); CD-ROM drive; QuickTime 2.0 or later required for playing movies.

T1594LL/C

\$299.00

Horizons Technology, Inc. (HTI)

Power!Video

Apple developers can quickly compress high quality digital video with Power!Video Pro and Power!Video Easy. Both can deliver up to 30 frames per second full screen video without the need for additional hardware on 486s or 68040 or greater processors. Power!Video products also feature free playback.

The Power!Video compressors work as plug-ins to all popular video editors.

Power!Video Easy lives up to its name—no dials or sliders, the developer simply pushes a button. It's an easy way to dip a toe in the compression water with prototype projects or presentations.

Power!Video Pro provides many additional features for even more creative productions. Since every Power!Video frame is a key frame and compressed individually, the developer has complete interactive editing capability.

Power!Video compressors support 8-, 16-, and 24-bit playback. Video or stills may be compressed to any horizontal or vertical geometry. Still images are more compact than JPEG, which means the images are great for the Internet.

Power!Video compressors provide intraframe (frame by frame) compression with cross platform capability under QuickTime, QuickTime for Windows, Video for Windows, and Windows 95/NT.

Compression time is significantly faster than Cinepak and MPEG 1.

HTI's new Power!Video Easy and Pro represent the latest in a long line of video compression products and services from one of the original pioneers in the technology.

URL <http://www.horizons.com/>

Requirements

Macintosh or Mac OS-compatible with a 68040 or greater processor (Power Macintosh recommended); 16 MB RAM (32 MB recommended); 200 KB hard disk space; System 7.0 or later; A/V input via Apple internal or other capture card; A/V-capable display architecture.

Note

Product available through catalog to U.S. customers only. Customers located outside the U.S. should contact the manufacturer for resellers in their area.

Power!Video Easy 2.1—free playback

T2022Z/A

\$99.00

Power!Video Pro 2.1—free playback

T2021Z/A

\$495.00

The University of Texas

iTOWER Developer's
CD 1.2: The Multimedia
Kiosk Tool Kit

The iTOWER Developer's CD is the product of a collaborative effort between The University of Texas at Austin and Apple Computer to develop interactive multimedia kiosks providing a variety of enterprise-wide information services from networked sources. This CD contains the tools you need to produce kiosks and other multimedia applications which deliver interactive services from networked sources ranging from Internet servers to mainframe business computers. It includes all of the project's technical documentation, design guidelines, HyperCard authoring tools, network communications software, graphics design tools, QuickTime 2.0 movie production tools, equipment specifications, vendor lists, and registration information for the National Kiosk Developers' Workshops.

Requirements

Macintosh or Mac OS-compatible computer with a 68040 or greater processor; 12 MB RAM; System 7 or later; CD-ROM drive; 13" color monitor.

Notes

Authoring tools use HyperCard which is sold separately.
Graphics tools use Adobe Photoshop which is sold separately.

T1615LL/A **\$195.00**

Macromedia, Inc.

Director Multimedia
Studio 2

The most powerful tools for multimedia and the Internet, the Director Multimedia Studio 2 brings together the best products at the best price. Providing everything you need to create dynamic multimedia, the Studio includes: Director 5, the most powerful authoring tool for multimedia and the Internet; SoundEdit 16 version 2 plus DECK II 2.5, the most powerful desktop tools for audio production; Extreme 3D, the most powerful 3D solution for design and multimedia; and Macromedia xRes, the most powerful creative tool for high-resolution images.

URL <http://www.macromedia.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68040 or greater processor (Extreme 3D requires a math coprocessor); 16 MB RAM; 85 MB hard disk space; System 7.1 or higher; CD-ROM drive; 8 bit color monitor at 640 x 480 resolution or higher; Macintosh AV, Power Macintosh or third-party hardware card to record 16-bit audio or to use DECK II.

Note

Product available through catalog to U.S. customers only. Customers located outside the U.S. should contact the manufacturer for resellers in their area.

T1745LL/B **\$999.00**

WAVES

WaveConvert

WaveConvert is an easy to use cross-platform audio processing application for multimedia developers. It's ideal for all multimedia audio productions, delivering loud and clear audio files. It combines the well-known peak limiting technology of the WAVES L1 Ultramaximizer with other WAVES processors into a powerful audio processing tool which offers one step conversion of multiple files.

Features

- Sample rate conversions from 5 KHz to 48 KHz
- Audio level normalization
- Preview function
- Stereo/mono conversion
- Tone and gain control
- Reduced background noise
- 16/8 bit conversion using special audio maximization techniques
- Preparation for RealAudio
- AIFF 'snd', .WAV, SDII, and RAW formats

Requirements

Macintosh or Mac OS-compatible computer with an FPU, or a PPC 601 or greater processor; 8 MB RAM; 5 MB hard disk space; System 7.1 or later; Sound Manager 3.0 or later.

T2027Z/A **\$270.00**

WAVES

AudioTrack

AudioTrack is a software plug-in for native processing on Macintosh digital audio recording and editing systems. Waves AudioTrack combines the most-needed audio processors into a single piece of software, including 4 bands of equalization, compression/expansion, and noise gating. AudioTrack is ideal for individual mono/stereo tracks of audio and audio for video editing systems including digital sequencers, or for processing of mixed tracks.

Features

- Single window interface
- Equalization, compression/expansion and gate
- Volume and gain reduction meters
- Peak hold and clip meters
- Instantaneous A/B comparisons between on-line settings
- Setup library
- Native and DSP hardware processing

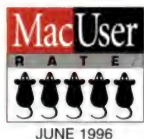
Requirements

AudioTrack is a plug-in for the following software: Adobe Premiere 4.0 or later; Macromedia Deck II 2.5 and SoundEdit 16; Digidesign Sound Designer II, ProTools, AudioSuite, Bias Peak, Steinberg VST.

T2025Z/A **\$270.00**

Terrain Interactive

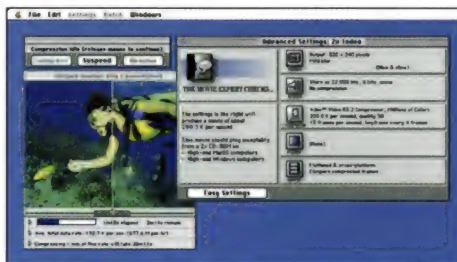
Movie Cleaner Pro 1.2



Make The Best Video Faster!

Movie Cleaner Pro is the only tool for QuickTime video compression. A dedicated QuickTime compression utility for the MacOS, Movie Cleaner Pro lets you produce the highest quality compressed video, faster than any other tool available.

Powerful Features! Movie Cleaner Pro gives you a hefty bundle of professional-level features designed to improve the quality of your movies and increase your throughput.



Features

- Easy to use! Compress QuickTime movies for hybrid CD-ROMs or the Web easier than ever. Simply answer the Movie Expert's questions and make great looking QuickTime videos.

- Drag & Drop Batch processing saves you time—set up a batch of up to 2000 movies in minutes.
- Suspend and Resume lets you use your computer as you need it. Stop compression at any time and then flawlessly continue—even for batches. You can check email, author multimedia, even turn your computer off—without waiting to finish a compression job.
- Adaptive Noise Reduction, IMA audio compression, De-Interlacing, Gamma Correction, high-quality audio resampling, A/V fades, the "Talking Heads" Filter, and more. All designed into an easy-to-use interface.
- Improved speed—version 1.2 is over 30% faster.

MacUser magazine says, "Movie Cleaner Pro is a gem of a program that no serious multimedia developer should be without. It has everything that the file-size conscious moviemaker needs and has a great interface; an excellent tutorial; and a superb, innovative feature set."

URL <http://www.terrain-int.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68040 or greater processor; 8 MB RAM; 1 MB hard disk space; System 7 or later; QuickTime 2.0 or later.

T1884Z/A **\$189.95**

E.T.O.: Essentials • Tools • Objects

Apple's deluxe collection of core programming tools

Apple Computer, Inc.

E.T.O. has set the industry standard for providing professional software developers with regular updates to core development tools by subscription since 1990. Subscribers automatically receive the tools on CD three times during the subscription year—and at a very affordable price.

E.T.O. brings together a deluxe collection of Macintosh core development tools, designed to support C, C++, and assembly-language programmers. It contains a robust development environment (Macintosh Programmer's Workshop), compilers, debuggers, application frameworks (MacApp), component frameworks (OpenDoc

Development Framework), and testing tools that you can use to streamline application development for 68K and Power Macintosh systems.

Although E.T.O. includes a complete development system, it also includes many components that work well with other popular development environments, particularly Metrowerks CodeWarrior and Symantec C++ for Power Macintosh. So it's a wise purchase regardless of your development environment preference.

And now, you can purchase E.T.O. together with either Symantec C++ Release 5 or Metrowerks CodeWarrior Gold 11. See the sidebar on the next page for more information.

Major E.T.O. software components include:

MPW Shell The Shell is the centerpiece of the Macintosh Programmer's Workshop (MPW) development environment. It is an integrated multiwindow text editor and command executor that supports numerous built-in commands and a powerful scripting language that allows you to customize the environment to suit your needs. The Shell also includes Projector, an integrated source code control system that simplifies the management of large, complex software projects being worked on by a team of programmers.

SC/SCpp — C and C++ Compilers (68K) These are new ANSI-compliant 680x0-code-generating C and C++ compilers that are faster than previous compilers included with MPW. They run in native mode on a Power Macintosh and support the new CFM-68K runtime model.

MrC/MrC++ — C and C++ Compilers (PowerPC) These are new MPW compilers which offer greatly improved turnaround time and also generate efficient and highly-optimized PowerPC code for fast binary execution on Power Macintosh systems. MrC adheres to the ANSI C standard (ANSI X3.159-1991) and MrC++ adheres to the ANSI C++ working paper (ANSI X3J16), except for templates and exception handling.

Assemblers (68K and PowerPC) Two assemblers are included, one which supports the full 68xxx instruction set and the other which supports the PowerPC instruction set. The 68xxx assembler supports all the instructions and addressing modes for the MC68000, MC68010, MC68020, and MC68030 microprocessors, the MC68851 Paged Memory Management Unit (PMMU), and the MC68881 and MC68882 Floating-Point Coprocessors, in all usable combinations.

MPW Tool and Script Suite Dozens of tools and scripts are included to assist you in the development process. These include linkers, a Make tool, resource manipulation and analysis tools, file comparison utilities, and many more.

MacApp This is an advanced object-oriented application framework and class library which can be used to streamline the development of Power Macintosh and 680x0 applications through the benefits of object-oriented programming.

NEW! OpenDoc Development Framework

ODF is a robust object-oriented framework you can use to simplify the creation of cross-platform LiveObjects (OpenDoc components). ODF makes

E.T.O. REFERENCE BOOKS

E.T.O. includes electronic versions of all the books listed below, which can be easily printed in Adobe Acrobat format. These books are also available individually in printed form.

Building and Managing Programs in MPW

Describes all aspects of building and managing your software programs using MPW. It gives an overview of the build process, the runtime architectures available, and the types of programs you can build.

R0698Z/A **\$30.00**

MrC/MrC++: C/C++ Compiler for Power Macintosh

Covers MrC and MrC++, which are ANSI-compliant, MPW-based C and C++ compilers that produce highly optimized code for the PowerPC environment.

R0690Z/A **\$15.00**

SC/SCpp: C/C++ Compiler for 68K Macintosh

Describes SC and SCpp, the MPW-based compilers that generate 680x0 code.

R0699Z/A **\$15.00**

MPW Assembler Reference (68K) Explains how to prepare source files to be assembled by the MPW 68K Assembler.

R0591LL/A **\$25.00**

Assembler for Macintosh with PowerPC

Describes how to write assembly language programs that execute under the Macintosh operating system.

R0624LL/A **\$15.00**

SourceBug Reference Lists the most important components and features of the debugger in both reference and tutorial form.

R0217LL/B **\$10.00**

Macintosh Debugger Reference Shows how you can use the Macintosh Debugger to debug your programs, and for PowerPC debugging, measure their performance.

R0689Z/A **\$15.00**

MacsBug Reference and Debugging Guide

Covers MacsBug, Apple's assembly language debugger for Macintosh programmers.

R0063LL/A **\$24.95**

ResEdit Reference Describes ResEdit, an extensible stand-alone resource editor for the Macintosh computer—a powerful tool you can use to speed your software development process and to create icons, menus, and other resources for Macintosh programs and files.

M0015LL/D **\$15.95**

Programmer's Guide to MacApp Covers the architecture of MacApp 3.3 and describes how to make effective use of it. It also describes the programming features of MacApp and includes sample code and recipes for implementing a variety of features.

R0700Z/A **\$35.00**

All Manuals Above as a Set

R0701Z/A **\$149.00**

Note: The following book is included with the E.T.O. product. It is also sold separately for the benefit of site licensees who may wish to purchase additional copies.

Introduction to MPW, Second Edition Contains introductory material you need to know before you can use the MPW development environment to create Macintosh software.

R0600LL/B **\$15.00**



the process of building LiveObjects easier by implementing much of the default behavior of LiveObjects.

SourceBug This is a source-level debugger that provides basic debugging capabilities for 68K applications, such as setting breakpoints, controlling program execution, and displaying the contents of variables. It also has special support for debugging object-oriented code.

Power Macintosh Debugger This powerful PowerPC debugger features an easy-to-use interface that allows you to set breakpoints, examine and change the contents of memory and registers, and view your code at either the assembler or source level. It can also be used to trace your application's execution or gather performance data. It works in a one- or two-machine environment, thus allowing you to debug almost any type of code running on the target system. The Power Macintosh Debugger can be used with symbol files emitted by MPW, Metrowerks CodeWarrior, and Symantec C++ for Power Macintosh environments.

MacsBug This is a low-level debugger for debugging software at the assembly-language level (680x0 or PowerPC). It loads at system startup time and idles until it is invoked either manually (by pressing the interrupt switch or a key that you define) or programmatically (by calling special traps from within your program). And since MacsBug needs so little of the system to operate, it can be used even in the case of fatal system errors.

ResEdit This is a graphical resource editor for creating and editing elements of the Macintosh user interface such as menus, windows, icons, dialog boxes, and other standard data structures. Programmers and advanced users can quickly create portions of their application's user interface as well as modify an existing interface.

Macintosh

Programmer's Assistant This is a useful on-line reference tool, which provides rapid up-to-date access to information on all aspects of the Macintosh

API, including toolbox managers, data structures, routines, constants, resources, and MPW commands. MPW scripts and tools are also provided that let you access it directly from the MPW environment using "hot keys." It is also easily accessible from CodeWarrior or Symantec C++.

Virtual User Virtual User is a test automation system that enables a host Macintosh to control the actions of target Macintosh computers remotely. The host executes tests on one or more target machines by reading the commands it is to issue from a file called a script. The script is a text file written in the Virtual User scripting language. This interpreted procedural language provides Virtual User with the ability to recognize and manipulate various elements of an application's human interface, compare the actual result of a command with an expected result, and branch logically according to the result of the comparison.

...and More! Watch our website at <http://www.devtools.apple.com/> for the latest information about E.T.O.

Remember that E.T.O. also includes prerelease versions of several tools, thus providing you with early access to bug fixes and enhancements.

Reference Books

E.T.O. comes with a printed reference book that introduces you to the MPW development environment—*Introduction to MPW*.

 This product may contain Class 1b beta release products and Class 2 restricted products. Beta releases of products are not fully tested and documented, but are expected to be completed in the future. Class 2 products are not tested, and documentation may still be in preliminary draft form.

How to Order

To get E.T.O., order the New Subscriber Package. This will give you all the software described, the printed *Introduction to MPW*, and the next two updates to E.T.O. as they are released.

Special Ordering Notes

- To renew your existing E.T.O. subscription, order the *Annual E.T.O. Subscription Renewal (3 issues)* product.
- If you already own Apple's MPW product, you can upgrade to an E.T.O. subscription simply by purchasing the *Annual E.T.O. Subscription Renewal (3 issues)* product.

Special User Note

The list of components included on E.T.O. is subject to change without notice. For a detailed product description, visit our website at <http://www.devtools.apple.com>.

Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 8 MB RAM (16 MB or more strongly recommended); System 7 or later; CD-ROM drive. RAM requirements vary depending on the tools being used.

A Power Macintosh is required for execution of PowerPC code. The Power Macintosh compilers and tools run in 680x0-based systems or in Power Macintosh emulation mode; some tools are also provided for use in Power Macintosh native mode.

Site License Information

E.T.O. Site Licenses are available for business and education institutions. Categories of site licenses include Limited Territory, Unlimited Territory, and Unlimited Worldwide. For more information, please call Apple Software Licensing at 800-793-9378, or e-mail to sw.license@applelink.apple.com, or call the ADC phone number listed below.

E.T.O.: Essentials•Tools•Objects New Subscriber Package

M0895LL/C **\$195.00**

Annual E.T.O. Subscription Renewal (3 issues)

R0076LL/B **\$125.00**

Everything You Need... and More!

E.T.O. includes MPW, a complete C/C++ development environment, and many components not available with either Metrowerks CodeWarrior or Symantec C++. This makes E.T.O. an excellent companion to either of those popular environments.

For example, no matter what your development environment, E.T.O. is the most convenient source for the Macintosh Programmer's Assistant, performance analysis tools, Pascal-to-C conversion tools, and the Virtual User testing tool. Plus, CodeWarrior users also get a plug-in MrC/MrCpp compiler and the Power Mac Debugger.

In order to help developers get every tool they need, Apple is now offering E.T.O. for the special price of \$100 when you purchase your subscription along with either CodeWarrior or Symantec C++! If you already have one of these environments, you can get E.T.O. for the new low price of \$195.

We've reduced the E.T.O. subscription price by focusing the range of components offered and by moving to electronic documentation. The complete set of printed books is now an optional add-on.

Now the best development solution is your favorite integrated development environment with E.T.O. at a special price.

If there are any other enhancements to E.T.O. that you'd like to see, send a note to dev.tools@applelink.apple.com.

E.T.O. and Symantec C++ Release 5

B2845Z/A **\$249.00**

E.T.O. and Metrowerks CodeWarrior 11

B2846Z/A **\$499.00**

**E.T.O. RELEASES ARE
SCHEDULED FOR
DECEMBER,
APRIL, AND
AUGUST
EACH YEAR**

Apple Computer, Inc.

Macintosh Common Lisp 3.0

This object-oriented dynamic language is fully integrated with the Macintosh and includes a fast incremental Common Lisp compiler, a rich set of Lisp programming tools, and an extensive library of Common Lisp Object System (CLOS) objects, including Macintosh user interface objects. Macintosh Common Lisp (MCL) is especially well-suited for rapid prototyping and cost effective delivery of applications.

Features

- Interactive dynamic environment
- Fast, incremental Common Lisp compiler
- Industry-standard implementation of Common Lisp and CLOS
- Multiple processes
- Sophisticated object-oriented error condition system
- Smart programmable tools for prototyping, programming, and debugging, including an interface toolkit, a source code stepper, a symbolic debugger, a dynamic object inspector, and a stack backtrace
- Full programmable syntax-aware editor
- Automatic memory management, which is handled incrementally by an ephemeral garbage collector
- Foreign-function interface, allowing Lisp programs to call functions created with MPW languages such as C, Pascal, and Assembler
- Full Lisp source code for many examples and utilities
- Smaller application footprint

Licensing Notes

You may ship any quantity of applications created with MCL with purchase of the Macintosh Common Lisp Redistribution Kit.

URL <http://www.digitool.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 4 MB RAM; 8 MB hard disk space; System 7 or later; CD-ROM drive.

Macintosh Common Lisp 3.0

R0167Z/C **\$595.00**

Macintosh Common Lisp 3.0 Upgrade

R0561Z/B **\$135.00**

**PowerPC Upgrades
Now Available from
Digitool for MCL 3.0
Customers Only.**

Quasar Knowledge Systems, Inc.

SmalltalkAgents 2.1



SmalltalkAgents (STA) is an integrated development environment. Build native, double-clickable Macintosh applications rapidly with the SmalltalkAgents workbench. The workbench comes complete with an optimizing Smalltalk compiler, virtual machine, source code debugger, development tools, application framework, general class library with source, and user interface component classes with source.

Features

- Integrated Code Fragment Manager (CFM) gives you direct access to native PowerPC code libraries (C/C++, Pascal, FORTRAN, and Assembly).
- Automatic garbage collection and object typing will free you from tedious memory management and bookkeeping chores.
- With the Application Delivery Toolkit (ADT), you can easily create royalty-free, standalone, double-clickable applications.

URL <http://www.qks.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68030 or greater processor; 8 MB RAM partition; 35 MB hard disk space; System 7 or later; CD-ROM drive.

T1547LL/C

\$695.00

Absoft Corporation

Absoft FORTRAN 90 for Power Macintosh

Absoft F90 SDK is a complete native ANSI FORTRAN 90 development kit for Power Macintosh. F90 SDK includes a globally optimizing compiler (includes 604 optimizer); graphical debugger; browsers; array display, performance profiler; linker; MRWE application framework; MIG graphics library; Absoft Create Make; several utilities; the latest version of MPW and illustrated documentation.

Absoft F90 makes Fortran programs easier to write and maintain, and supports:

- Whole array operations
- Modules
- User-defined types or data structures
- Interface blocks
- Dynamic memory allocation and new control constructs

F90 is link compatible with Absoft F77, C++, CodeWarrior, and MrC. It is fully compatible with Toolbox, MPW tools, and most third-party products.

URL <http://www.absoft.com/>

Requirements

Power Macintosh or Mac OS-compatible computer with PPC 601 or greater processor; 16 MB RAM; 24 MB hard disk space; System 7.1.2 or later.

T2017Z/A

\$899.00

Fortner Research LLC

LS FORTRAN PRO



LS FORTRAN is recognized by thousands of scientists and engineers as a user-friendly, robust ANSI standard FORTRAN 77 compiler for the Macintosh and Power Macintosh. Using intuitive, menu-driven commands and a variety of built-in extensions, LS FORTRAN makes it easy to port legacy code from main-frame computers and compile, link, and execute programs efficiently.

Features

- Optimized for faster performance on the PowerPC 604 chip
- Support for Macintosh toolbox and Apple Events
- Built-in diagnostics, such as range, overflow, heap, and null pointer checking
- Source-level debuggers
- Math77; a library of over 450 mathematical subroutines in source code format
- Source Code Analyzer; a powerful static analyzer that is useful in porting large applications and debugging programs with extensive use of toolbox calls

URL <http://www.fortner.com/>

Requirements

Macintosh or Mac OS-compatible computer with 68020 or greater processor; 5 MB RAM; 15 MB hard disk space; System 7 or later.

T1602LL/B

\$595.00

Absoft Corporation

Absoft F77 SDK for Power Macintosh

Absoft F77 SDK is the world's best-selling FORTRAN software development kit for Power Macintosh Programmers. F77 SDK includes globally optimizing code generators for both PPC (plus 604 optimizer) and 68K, graphical debugger, browsers, 2D array display, linker, MRWE application framework written entirely in FORTRAN (full source included), two graphics libraries, performance profiler, Absoft



CreateMake, VAX/VMS and UNIX compatibility libraries, several utilities, latest version of MPW, and 450+ pages of fully illustrated documentation.

Absoft F77 SDK is link compatible with Absoft F90 and CodeWarrior, and supports Apple events, Publish and Subscribe, and AppleScript. It is fully compatible with the Toolbox, other MPW tools and languages, and most third-party products. F77 is source compatible with Absoft F77 compilers for Windows 95, Windows NT, Linux, and UNIX.

URL <http://www.absoft.com/>

Requirements

Power Macintosh or Mac OS-compatible computer with a PPC 601 or greater processor; 16 MB RAM; 21 MB hard disk space; System 7.1.2 or later.

T1171LL/A

\$699.00

Metrowerks, Inc.

CodeWarrior Gold 11

CodeWarrior Gold, the world's best-selling suite of Macintosh development tools, offers everything you need for industrial-strength programming. This complete solution allows you to develop for Macintosh, Windows 95, Windows NT, Magic Cap, and PowerTV. The award-winning, easy-to-use IDE supports C/C++, Object Pascal, and Java. CodeWarrior's plug-in compilers make it easy to expand an application's market without spending valuable time learning additional programming environments. The suite also includes online books, extensive reference material, and Apple Guide files for easy navigation through tutorials and examples. Two free updates and technical support are included with registration.

Features

- Improved IDE—graphical browser view, new project manager, global preferences and an improved editor
- JIT compiler for Java
- C++ compilers support Apple's Direct-to-SOM language extensions

T0937LL/J

\$399.00

See the Books Section, page 44, for Metrowerks books.

Apple Computer, Inc.

Apple Dylan Technology Release

68K and PowerMac Versions

This Apple Dylan Technology Release contains a PowerPC-native prototype version of a development environment based on the Object Oriented Dynamic Language (OODL) Dylan. It also contains the previously released 68K version. It is hosted on RISC-based Macintosh systems, however, developers will be able to produce code targeting both 680x0 and Power Macintosh systems. This PowerPC native version has been tested on System 7.5.3.

Apple Dylan

**Features**

- Automatic memory management
- Incremental development environment
- Application framework and user-interface builder
- High-level exception handling
- Cross-language support for C code and APIs

Requirements

Power Macintosh or Mac OS-compatible computer with a PPC 601 or greater; 20 MB RAM; 80 MB hard disk space; System 7.5 or later; CD-ROM drive.

CD & on-line documentation

M5475Z/A

\$39.95**CD & hardcopy documentation**

M5466Z/A

\$59.95**Discover Programming with Java**

This software/literature combination offers everything you need to start programming with Java. You'll find the award-winning CodeWarrior IDE, an extensive Java toolset, an electronic version of *Learn Java on the Macintosh* by Barry Boone with Dave Mark, and 6 Apple Guide files, the electronic tutorials that take you step-by-step through the learning process. Free technical support from Metrowerks with registration.

T1960Z/A

\$99.00**Discover Programming for Macintosh**

Discover Programming for Macintosh brings together all the resources you'll need to start and complete your programming education. Designed for both novice and experienced programmers, the CD contains four online programming books by renowned authors Dave Mark (*Learn C on the Macintosh*, *Learn C++ on the Macintosh*), Jim Trudeau (*Programming Starter Kit for Macintosh*), and Jan Harrington (*Software Development Using PowerPlant*). A complete version of CodeWarrior C, C++ and Object Pascal compilers for 68K are included along with several source code examples. Free technical support is included for one year when you register.

T1878Z/A

\$79.00

Symantec Corporation

THINK Pascal 4.0

Professionals and students will welcome the rapid turnaround time offered by this fully integrated version of THINK Pascal that lets you take advantage of System 7 capabilities. Features include support for large projects, enhanced THINK Class Library, System 7 compatibility, superior code generation and smart linking. It comes with four Macintosh disks, a 562 page user manual, and a 498 page object-oriented programming manual.

URL <http://www.symantec.com/>**Requirements**

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 1 MB RAM (4 MB recommended for the THINK Class Library or MacApp); System 6.0 or later.

T0068LL/D

\$165.00**Metrowerks CodeManager**

Save time and money managing complex software development projects with MW CodeManager, the only commercial cross-platform source code control system for the Macintosh, based on and compatible with Microsoft Visual SourceSafe version 4.0a. Designed for individual users or large, multi-platform project teams, MW CodeManager allows you to safely manage millions of lines of code and maintain source-code and version control. It now has an improved, easy-to-use interface and Administrator application. It includes two free updates and technical support with registration.

T1829Z/C

\$399.00URL <http://www.metrowerks.com/>**Requirements (all products)**

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 8 MB RAM minimum, 16 MB RAM recommended; 25 MB hard disk space (12 MB for Discover Java); System 7.1 or later (for 68K Macintosh) or System 7.1.2 or later (for Power Macintosh); CD-ROM drive for installation.

Symantec Corporation

Symantec C++ for Power Macintosh Release 5

Symantec C++ for Power Macintosh now comes with MrC—Apple's new optimizing compiler. Industry-standard Nullstone tests show that applications compiled with MrC run an average of 22% faster.

Features

- AppleScript support to automate repetitive tasks
- Graphical Interface Builder
- New Project Manager to organize and navigate nested projects
- Multi-threaded environment lets you edit and write code while compiling
- Generates PowerPC and 68K code
- Subscription program automatically provides two free product updates from manufacturer

URL <http://www.symantec.com/>**Requirements**

Power Macintosh or Mac OS-compatible computer with a PPC 601 or greater processor; 8 MB RAM (12 MB recommended); System 7.0 or later; CD-ROM for installation.

T1669LL/C

\$149.00

*Motorola RISC Software***Motorola C/C++ SDK**

Motorola C/C++ SDK, PowerPC Edition for Mac OS, produces aggressively optimized applications from within today's most popular development environments. The Motorola compilers are available as part of a full SDK with MPW and the Kuck & Associates pre-processor (KAP for C) or as C/C++ plug-ins for the Metrowerks CodeWarrior and Symantec Project Manager (SPM) environments. Motorola compilers can optimize code for any specific PowerPC microprocessor, while ensuring that the binary will be fully compatible with any member of the PowerPC family.

Features

- Full SDK includes:
 - Motorola C/C++ compilers for MPW, CodeWarrior, and SPM
 - Apple MPW and tools
 - KAP for C
- Plug-in kit offers C/C++ compilers for CodeWarrior and SPM only
- ANSI-compliant front ends
- Multiple optimization levels
- Complete documentation

URL <http://www.mot.com/>

Requirements

Power Macintosh or Mac OS-compatible computer with a PPC 601 or greater processor; 16 MB RAM; 20 MB hard disk space; System 7.5 or later; CD-ROM drive.

C/C++ SDK

T1868Z/C **\$299.00**

C/C++ Plug-in Kit

T1969Z/B **\$99.00**

*Nisus Software, Inc.***QUED/M 3.0**

The text editor you've used and loved for over 10 years is now pumped up with improvements and hot new features. This new version is PowerPC native and includes Symantec and THINK Project Manager support, Metrowerks CodeWarrior support, HTML macros, System 7.5 drag-and-drop, plus a powerful new programming dialect, dynamic coloring of C/C++ keywords and comments, non-contiguous selection, file comparison and unlimited undos. It also includes Celestin Company's APPRENTICE 4 free! That means when you order QUED/M 3.0 you get over 600 megabytes of source files and utilities to help you code better and faster.

URL <http://www.nisus-soft.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 1 MB RAM; 1 MB hard disk space; System 7 or later; CD-ROM drive.

T1720Z/B **\$69.00**

*Tenon Intersystems***Power Mach^{Ten} for Macintosh**

With Tenon's new PowerPC native Mach^{Ten}, you can develop PowerPC, UNIX, and Macintosh applications using standard UNIX C and C++ tools. You also can use standard Power Macintosh software development tools such as Metrowerks'



CodeWarrior and Apple's MPW to develop Mach^{Ten} UNIX applications.

Power Mach^{Ten} is a BSD/MACH UNIX that runs on all Power Macintosh computers and those accelerated with PowerPC upgrade cards. Mach^{Ten}'s strength lies in the way it extends the Macintosh operating system with UNIX networking and software development tools. The Macintosh/UNIX integration is so strong that you can even use Macintosh programs and utilities on UNIX data, and UNIX programs and utilities on Macintosh files.

Full Internet protocol support ensures fast, easy client and server NFS, e-mail, and file transfer between the Macintosh and all TCP-based entities on your network. Built-in Internet services include domain name service, POP mail service, Internet routing, SLIP & PPP, and web service.

Full X11R5 support with Motif make developing distributed applications a breeze. And, Tenon's

Books and References

For books and references in the Languages and Environments category, see page 44.

high-performance X server lets you use your Power Macintosh as an X terminal.

X^{Ten} is a high-performance X server that lets you view X Window applications on the Macintosh desktop. X^{Ten}, Release 6.0, supports 24-bit color and adheres to the MIT X11R6 standard.

Features

- Full Macintosh application compatibility
- Industry-standard UNIX software development environment
- Internet communications support
- Distributed file system with NFS client and server
- X Window development environment with Motif
- High-performance X server with mwm and olvwm

URL <http://www.tenon.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 8 MB RAM (16 MB RAM for Power Macintosh); 80 MB hard disk space (100 MB for Power Macintosh); System 7 or later; CD-ROM drive.

Power Mach^{Ten} (for Power Macintosh)

T1718Z/B **\$695.00**

Professional Mach^{Ten} (for 68K Macintosh)

T1755Z/B **\$695.00**

X^{Ten} for Power Macintosh

T2026Z/A **\$350.00**

Natural Intelligence, Inc.

Roaster

Be the first Macintosh developer on your block to take advantage of the unique capabilities of Sun's new Java programming language! Roaster, from Natural Intelligence, Inc., is the first development environment for writing, testing, and running Java applets on the Macintosh.

Features

- Fully integrated development environment
- Project window that includes a Finder-like view of packages
- Lightning-fast, Power Macintosh native compiler
- Source code editor with powerful search features and intuitive user interface
- Run-time engine for quick and easy applet testing

URL <http://www.natural.com/>**Requirements**

Macintosh or Mac OS-compatible computer with a 68030 or greater processor; 8 MB RAM; 30 MB hard disk space; System 7.1.2 or later; CD-ROM drive.

T2020Z/A \$129.00

Mainstay

VIP-BASIC 2.0

Finally, a Power Mac-native BASIC development environment for the Macintosh! VIP-BASIC is the ultimate BASIC environment for creating complete, professional, stand-alone Macintosh and native Power Macintosh applications! VIP-BASIC even converts your BASIC code to ANSI standard C for easy portability to other systems. VIP-BASIC gives you everything you need in one box, at a price anyone can afford. And with VIP-BASIC you program the way you want. Work in a traditional bottom-up approach, or design your program's interface first with a powerful, integrated Form editor—complete with plug-in control modules. For the novice Macintosh programmer and the neglected BASIC user, this program is a must-have. Breathe some life into those old BASIC files you created years ago and watch them scream as Power Macintosh native applications. Buy VIP-BASIC today!

URL <http://www.mstay.com/>**Requirements**

Macintosh or Mac OS-compatible with a 68030 or greater processor; 4 MB RAM (8 MB RAM recommended); 12 MB hard disk space; System 7 or later; CD-ROM drive.

T1577LL/A \$249.00

ACI US, Inc.

Object Master 3.0 Universal

Object Master is an innovative programming environment that provides all the necessary tools to write, organize, and navigate through source code and speed the development of C/C++ programming. Object Master is available for both Macintosh and Windows, and allows you to use the same project interchangeably across both platforms. Object Master supports C and C++ programming languages and works seamlessly with all major compilation systems.

Object Master also parses code, checks syntax in real-time, and maintains a dynamic data dictionary of components. It includes industrial-strength browser windows, graphical class-tree windows, a sophisticated source code editor, and parser.

URL <http://www.aci-4d.com/>**Requirements**

Macintosh or Mac OS-compatible computer with a 68030 or greater processor; 2 MB RAM; 2 MB of hard disk space; System 6.0.5 or later.

T0601LL/D \$249.00

STAZ Software, Inc.

FutureBASIC II 2.0 and Program Generator

FutureBASIC II (FB II) is a powerful, easy-to-use, BASIC compiler and editor. You can create and modify your source code in the editor and test your work without switching to a separate compiler. FB II generates applications that run at speeds equal to C and Pascal, yet it is much easier to learn. You can create custom, double-clickable applications that address all of the elements of the Macintosh interface. You can also use FB II to generate code resources like XCMDs, MDEFs, WDEFs, and extensions.

Program Generator allows you to edit menus; build windows; create application resources; and draw edit fields, controls, picture fields, clickable icons, and scrolling lists. Finished code runs in FB II and can automatically handle text editing, core events, updates, and more. PG may be used as a prototyping tool, a resource editor, or a CASE tool.

URL <http://www.stazsoftware.com/>**Requirements**

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 1 MB RAM; 8 MB hard disk space; System 6.0.5 or later.

T1883Z/A \$229.00

Mainstay

VIP-C 2.0

Finally there's a C development environment that anyone can use. VIP-C is the fastest, easiest way to create complete, professional, stand-alone Macintosh and Power Macintosh applications—period. If you're tired of juggling editors, interface design tools, debuggers, and compilers, or intimidated by the myriad of development tools you need to get started, end your search for development utopia here. VIP-C gives you everything you need in one box, at a price anyone can afford. And with VIP-C you program the way you want. Work in a traditional bottom-up approach, or design your program's interface first with a powerful, integrated Form editor—complete with plug-in control modules. Because your program is in standard ANSI C, it's portable and completely compatible with other past, present, and future C development environments.

URL <http://www.mstay.com/>**Requirements**

Macintosh or Mac OS-compatible computer with a 68030 or greater processor; 4 MB RAM (8 MB RAM recommended); 12 MB hard disk space; System 7 or later; CD-ROM drive.

T0822LL/B \$349.00

Microsoft Corporation

Visual C++ Cross Development Edition for Macintosh 4.0

Learn one toolset, increase your user base, and knock months off your development time. With this Visual C++ add-on toolset, you can use up to 90 percent of the code from your Windows-based application to create the same application for the Macintosh, with the familiar Macintosh interface.

URL <http://www.microsoft.com/>**Requirements**

Host: IBM or IBM-compatible computer with 80486 or greater processor; 16 MB RAM (20 MB recommended); 70 MB hard disk space; Windows NT 3.5.1 or Windows 95; Visual C++ 4.0; CD-ROM drive.

Target: Macintosh or Mac OS-compatible computer with 68020 or greater processor; 8 MB RAM (16 MB recommended and required for OLE development); 20 MB hard disk space; System 7 or later; CD-ROM drive.

Ethernet hardware supporting an Ethernet AppleTalk or TCP/IP network connection between the PC and Macintosh.

Note

See ad on page 29.

Visual C++ Cross Development Edition Competitive Upgrade**T1989LL/A (U.S. only) \$199.00**

Apple Computer, Inc.

MacsBug



This useful assembly-level debugger offers power, expandability, reliability, and compatibility with System 7. The reference manual includes a wealth of debugging tips and techniques.

Special User Notes

High-level languages, such as C or Pascal, may require the use of a source-level debugger, such as SourceBug.

Requirements

Macintosh or Mac OS-compatible computer with a 68030 or greater processor; 800 KB RAM; 8 MB hard disk space; System 7 or later.

R0064LL/D

\$34.95

ResEdit



This graphical resource editor lets you create and edit elements of the Macintosh user interface such as menus, windows, icons, dialog boxes, and other standard data structures. Macintosh programmers and advanced users can quickly create portions of their application's user interface as well as modify an existing interface.

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 500 KB RAM; 800 KB hard disk space; System 6.0.2 or later.

M0910LL/D

\$29.95

Adianta, Inc.

The Memory Mine



The Memory Mine is a stand-alone tool for monitoring heaps and stress testing applications (Purge, Compact, and Zap, as well as on-the-fly memory allocation). It allows quick, non-intrusive identification of problems with memory allocation and memory architecture.

Heap corruption is flagged when it occurs; 16 different tests for heap corruption are performed on each monitoring cycle. Memory leaks are seen as they occur. Heap data can be logged manually or automatically. Source code is not needed to monitor heaps, and no special set-up is required.

Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 650 KB RAM; 320 KB hard disk space; System 7 or later.

T1781Z/A

\$99.00

Jasik Designs

The Debugger V2 & MacNosy Universal Version

This is the debugger of choice for many major Macintosh developers.

Features

- The Debugger, used for debugging of both 680x0 and Native PowerPC programs
- CoverTest, a program to determine code coverage for QA testing
- MacNosy, a powerful global decompiler
- Source-level debugging for Metrowerks and MPW programs, THINK C projects, OpenDoc parts and CFM Libraries

Other features include high-level symbolic debugging of arbitrary programs or resources (XCMDs, 4-D Externals, etc.) and the ROM, disassembly, viewing of registers, memory, the heap, the stack, global variables, trap, and user call parameters.

Product ships on CD-ROM and includes a Multimedia Training Tutorial.

URL <http://www.jasik.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 1.5 MB RAM; 2 MB hard disk space; System 6.0.5 or later; CD-ROM drive.

T0123LL/B

\$350.00

Casady & Greene, Inc.

Conflict Catcher 3



The industry standard in startup file management and conflict identification, Conflict Catcher 3 manages extensions, control panels, System Folder extensions, Apple menu items and fonts. For developers, system/hardware reports can include all the hexadecimal code of system traps of startup files listed by either file or trap name.

Features

- Identifies startup file conflicts
- Reduces Beta cycle delays
- Enhanced link and set features
- Scans for damaged resources
- System 7 native/savvy

URL <http://www.casadyg.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 512 KB RAM; 400 KB hard disk space; System 7 or later.

T1680LL/A

\$64.95

Fortner Research LLC

KAP Optimizer for Power Macintosh 2.1



KAP Optimizer is a state-of-the-art FORTRAN source code optimization tool now available for the Power Macintosh. KAP Optimizer performs advanced data dependence analysis on your source code. Using the information gained through analysis, KAP restructures your FORTRAN source code to optimize memory management and take advantage of architectural complexity and processor resources. Inefficiencies and bottlenecks are eliminated. KAP Optimizer for Power Macintosh takes advantage of a new, easy to use graphical user interface (GUI). Say goodbye to memorizing or looking up command lines. Now, just point and click to customize your optimization settings. KAP Optimizer is compatible with any FORTRAN compiler for Power Macintosh.

Features

- Cut execution time significantly
- Check your programming efficiency
- Gain superior price/performance ratio from your hardware

URL <http://www.fortner.com/>

Requirements

Power Macintosh or Mac OS-compatible computer with a PPC 601 or greater processor; 16 MB RAM; 4 MB hard disk space; System 7 or later.

T1983Z/A

\$199.00

Bowers Development Corp.

AppMaker CD

AppMaker makes it faster and easier to develop the user interface for a Macintosh application. Just point and click to design your application, then AppMaker creates resources and generates excellent source code.

AppMaker supports most development environments including Metrowerks CodeWarrior C or C++ with PowerPlant, Symantec C++ with TCL 2.0, THINK C, THINK Pascal, Metrowerks Pascal, Language Systems Pascal, and MPW C or C++ with MacApp 3.1. Add-on products support FORTRAN. The generated code uses Universal Headers to provide Power Macintosh compatibility.

Beginners use AppMaker to learn object-oriented and Macintosh Toolbox programming techniques; experts use it to increase productivity. It saves so much time, it's like having your own assistant programmer working for you.

One-year subscription on CD is included.

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 3 MB RAM; 5 MB hard disk space; System 7 or later; Drag and Drop; Color QuickDraw; CD-ROM drive.

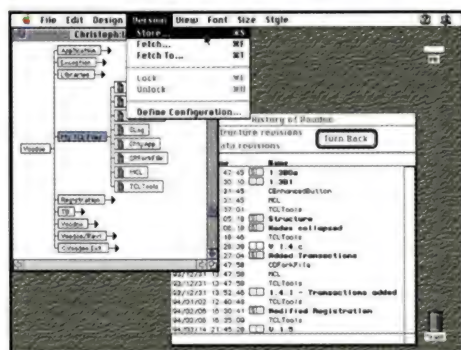
T0322LL/I

\$299.00

Uni Software Plus GMBH

VOODOO 1.7

VOODOO is the ultimate version control solution you have been waiting for a long time. It is a stand-alone version control tool with a neat graphical user interface offering many features for the simple and clear management of projects in which files evolve in numerous versions. VODOO manages not only variants and revisions of single files, but also of entire software projects (multiple files, multiple users, multiple variants, access rights, project



structure, project history, etc.). VODOO uses delta storage with amazing compression rates of about 95% (up to 99%). It is not restricted to text files but works for files of arbitrary type (desktop publishing documents, databases, libraries, applications, etc.). VODOO is suitable for small (one person) projects up to large projects with many developers. A flexible locking mechanism ensures data integrity when several developers work on the same project.

Features

- Stand-alone tool with graphical user interface
- Simple and clear management of variants and revisions of entire projects (not only single files)
- Efficient delta storage (95% savings and more) for files of arbitrary type (MS Word, QuarkXPress, FileMaker Pro, 4th Dimension, etc.)
- Administrate users with hierarchical access rights
- Recording of the complete project history (who made which changes, when, and why)
- Suitable for all sorts of projects (software development, documentation, design, CAD, etc.)

Enhancements in Version 1.7

- Drag-and-drop support enables easy integration with other tools
- Locking of files using the Finder's "Locked" flag
- Improved delta algorithm (up to six times faster, uses temporary memory)
- Printing of the project history supported

URL <http://www.unisoft.co.at/e/products/voodoo.html>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 1 MB RAM; 600 KB hard disk space; System 6.0.4 or later.

Single License

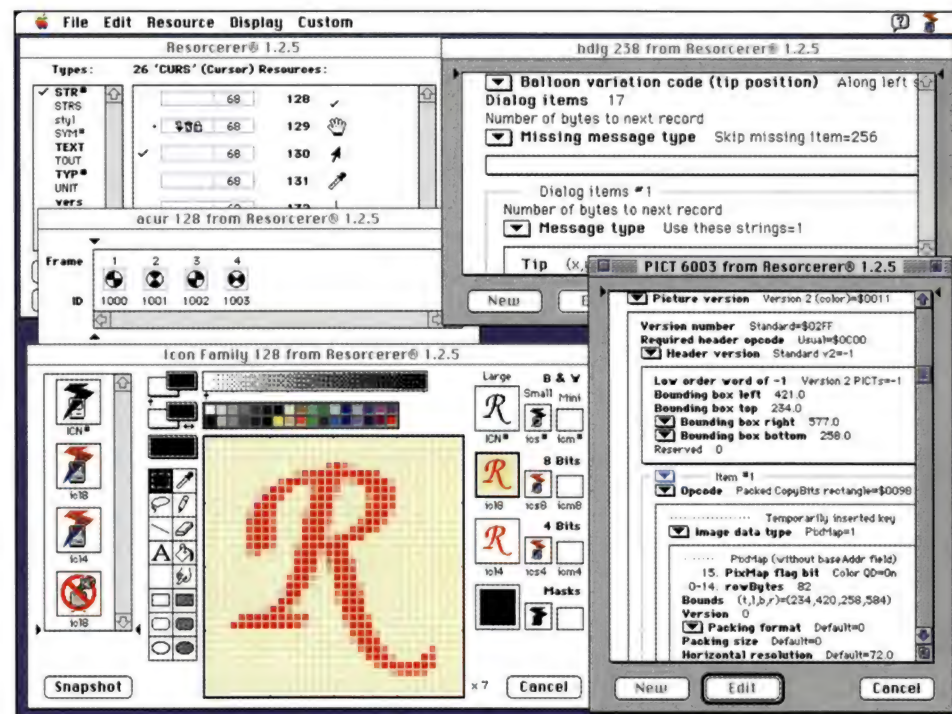
T1750Z/B	\$229.00
2 pack	
T1931Z/A	\$359.00
5 pack	
T1932Z/A	\$799.00

Mathemaesthetics, Inc.

Resorcerer

Winner of the Eddy Award for Best New Developer Tool of 1993, Resorcerer is the resource editor for the Macintosh wizard. *MacUser* magazine called it "without a doubt, the premiere resource editor on the Mac."

Filled with time-saving features to make you more productive, Resorcerer lets you easily browse all resources using just one file window; search all resources for specific text matches; make global attribute changes, including changing resource



Relied upon by developers, interface designers, and localizers around the world, the award-winning Resorcerer is a powerful, 32-bit, safe, easy-to-use, and well-supported resource editor for Macintosh and Mac OS-compatible personal computers. Engineers at every major Macintosh software company now enjoy Resorcerer's superior benefits.



types, with full undo; build resource files from other resource files automatically; and lots, lots more. Dedicated editors for dialogs, menus, color icons, pictures, strings, and other standard resources all work smoothly and safely.

Whether you have to parse a picture, debug a data fork, design and try out Balloon Help, create anti-aliased icons, design and edit a custom resource with 40,000 fields, create C source code to run a dialog, find every reference to a control, change the structure of existing custom resources, or any of hundreds of other resource-related tasks, Resorcerer's magic will quickly save you time and money.

Features

- Hundreds of standard resource types supported
- 120 TMPL data field types
- File comparison, text and hex searching
- Editable clipboard, screen copying
- All editing safely done in private memory
- 500-page manual, free tech support from manufacturer

URL <http://www.mathemaesthetics.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 1.5 MB RAM; 1.5 MB hard disk space; System 6.0.5 or later. For educational discounts, call 1-303-440-0707.

T0437LL/A **\$256.00**

Seapine Software, Inc.

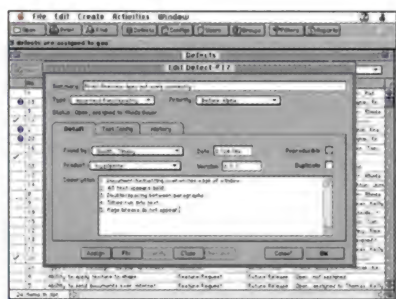
TestTrack 1.0

Discover the tool more and more of today's top Macintosh developers are using to track their bugs, feature requests, and customer information—TestTrack.

TestTrack automates the tedious and error-prone process of tracking bugs by hand. It also eliminates the need to create a custom solution using general purpose database tools such as 4D and FileMaker Pro.

TestTrack links engineers, testers, managers, even tech writers together so no one falls out of the loop. Team members are notified automatically when defects are assigned to them, guaranteeing communication and ensuring efficient work flow.

Use TestTrack's powerful filtering feature to see only the information of interest to you. For example, create a filter to list only high-priority problems. Create another to list only feature requests for the next release.



Do you want to know who reported the most bugs, how many are still open, or how much time a user spent fixing bugs? This information and more is just a click or two away. How about a bug's history—who found, fixed, and verified it—all of the details are available.

TestTrack makes reporting easy—just point, click, print and read. Customize reports to list what you need. Save reports in a variety of file formats.

TestTrack comes with a stand-alone bug reporter you can give your customers and beta-testers. When they find a bug or need a feature, they can easily create a file you can load into TestTrack.

TestTrack is ideal for all Macintosh developers—from consultants to commercial software and hardware developers.

Features

- Ready to use out of the box
- Single- and multiple-user support in one package
- Automatic notifications
- Customizable security
- Easy reporting
- Stand-alone bug reporter

URL <http://www.seapine.com/>

Requirements

Macintosh or Mac OS-compatible with a 68020 or greater processor; 2 MB RAM; 2 MB hard disk space; System 7.0 or later;

AppleShare-compatible file server required for multi-user access.

T1984Z/A

\$129.00

Bare Bones Software, Inc.

BEdit 4.0



BEdit 4.0 is the popular and critically acclaimed text editor for use by HTML authors, programmers, and anyone else who needs plain text editing and manipulation with maximum performance and useability. Its integrated HTML editing tools have made it the weapon of choice for HTML authors and webmasters all over the world, and its power and ease-of-use make it suitable for anyone from novice to professional.

Features

- Internet Config system is supported to manage interaction with Internet tools such as web-browsers and ftp clients
- Native PowerPC code speeds editing, searching and transformation of text files
- HTML tools (included) speed the composition of home pages and other WWW content

URL <http://www.barebones.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 730 KB RAM; 2 MB hard disk space; System 7 or later (System 7.5 recommended); CD-ROM drive.

T1545LL/E

\$99.00

Segue Software, Inc.

QA Partner 3.0 Automated Testing System

Segue's QA Partner for the Macintosh is the only automated software testing solution—object-oriented, language-based and graphical user interface (GUI)-aware—with a logical testing approach robust enough to cope with the complexity of GUI applications. QA Partner is the only product of its kind on the market today that lets you:

- Create effective automated tests for any phase of the application's lifecycle
- Plan and manage the testing process
- Reuse the same test across multiple releases and more than 20 platforms and operating systems

QA Partner Visual 4Test scripting language simplifies the scripting process for less experienced users while providing robust test capabilities for reuse across multiple GUI platforms.

Plus, QA Partner's exclusive Recovery System helps you achieve true unattended testing for creating the highest level of software quality—on time.

With QA Partner, you'll be well on your way to improving software reliability, reducing development costs and decreasing the time required to deploy quality software applications.

Requirements

Macintosh or Mac OS-compatible with a 68000 or greater processor; 1 MB RAM; 5 MB hard disk space; System 7 or later.

T1877Z/A

\$3,560.00

Bare Bones Software, Inc.

SoftPolish 1.2

SoftPolish is the essential tool for software quality assurance. It can help developers identify inconsistencies with Apple's user interface guidelines, misspelled words, missing resources, and other mistakes; and, it helps put the finishing touches on software distribution packages prior to release. SoftPolish is ideal for sanity checking software throughout the development process.

Features

- Spell checks dialog boxes and other resources, as well as file and folder names
- Performs resource validation by examining resource types, internal consistency, system software compatibility, resource sizing, and resource links
- Provides an easy means to set file and folder dates, remove unwanted resources, eliminate empty resource forks, list version resources, and warn of debugging traps or debugger names in 680x0 code

URL <http://www.barebones.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 4 MB of RAM; 2 MB hard disk space; System 7 or later (System 7.5 recommended); CD-ROM drive.

T1988Z/A

\$99.00

Onyx Technology

QC 1.2

QC is a stress-testing tool that checks code during runtime for a wide variety of serious errors. With QC many intermittent errors are instantly reproducible. There are over 15 stressful tests including heap check, purge, scramble, handle/pointer validation, dispose/release checks, write to zero, de-reference zero, free memory invalidation, and block bounds (overrun) checking. QC is extremely easy to use and sports an API for programmers who want precise control over testing. It already is used by many leading software companies. This version is PowerPC native.

URL http://www.onyx_tech.com/

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 4 MB RAM; 2 MB hard disk space; System 7 or later.

T1874Z/A

\$99.00

Symantec Corporation

Symantec Café

With Symantec Café, it's easy to develop Java applications and applets, and quickly add dynamic, interactive functionality to your World Wide Web pages. Tutorials and sample applets help you learn Java fast; a fast native Java compiler and full-featured environment let professional developers create Java applets quickly.

With Café and Symantec's award-winning, integrated development environment, you can create Java applets and applications that run on Macintosh, Windows, and UNIX systems. Café contains a fast native Java compiler and full-featured tools for Java development, including a project manager, an editor, and a class browser coupled with the Java applet viewer.

URL <http://www.symantec.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68030 or greater processor; 16 MB RAM; 30 MB hard disk space; System 7.0 or later; CD-ROM drive.

T1961Z/A

\$99.95

Quarterdeck Corporation

WebSTAR

Now you can create and serve your own World Wide Web site directly from your Macintosh! Within minutes, you'll be on the Internet or your internal network serving your home page, graphics, and even QuickTime movies. WebSTAR can publish information stored in your 4th Dimension, Butler, or Claris FileMaker Pro database, and it's faster and more secure than many UNIX servers.

WebSTAR includes Adobe PageMill, free FTP and Gopher servers, sample home pages, HTML editors, and lots of demo add-on software. Start serving your site today with the application that *MacUser* called the Software Product of the Year!

Features

- Four times faster than MacHTTP
- Includes free PageMill and WebSTAR SSL
- Supports millions of connections per day
- Remote administration via browser
- Faster and more secure than many UNIX servers

URL <http://www.stamine.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 4 MB RAM; 1.5 MB hard disk space; System 7 or later; MacTCP (provided) or Open Transport; TCP/IP connection to Internet or LAN.

T1909LL/B (U.S. only)

\$499.00



Adobe
PageMill
now included
FREE!

Adobe Systems, Inc.

Adobe PageMill 2.0

Now you can create full-featured Web pages without having to know a thing about HTML or URLs. That's because Adobe PageMill software makes building your Web pages a simple, drag-and-drop operation! Just type in text or import it directly from standard office applications. Do the same with images—PageMill automatically converts them to the appropriate format. Easily add editable frames and tables. Include audio, video, animated GIFs, and Adobe Portable Document Format (PDF) files. Create image maps or linked hotspots. And create links by simply dragging page icons. Whether you're a home-user or small business-user, graphic designer, or Webmaster, you can do it yourself—quickly and easily!

Features

- Edit Web pages directly, without seeing HTML.
- Lay out frames and tables with ease.
- Add form elements like text fields and buttons.
- Add colored text and background images.
- Test pages with the integrated Preview Browser.
- Keep frequently used elements in a multi-page pasteboard.

URL <http://www.adobe.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor (68040 or greater recommended); 4 MB RAM; 6 MB for Power Macintosh; 3.5 MB hard disk space; System 7.1 or later for Macintosh; System 7.1.2 or later for Power Macintosh (System 7.5 or later recommended); 4-bit grayscale or 8-bit color monitor; QuickTime 2.1 or later; QuickTime Power Plug for Power Macintosh; CD-ROM drive

T1814Z/B

\$99.00

Allegiant Technologies, Inc.

Marionet 1.1

Marionet is the first complete, script-level interface to the Internet for the Macintosh. It helps you build custom Internet solutions using popular authoring tools or productivity applications by providing simple, English-like commands for all major Internet protocols. Marionet takes care of all the complexity of communicating with the Internet.

Features

- Web page maintenance tools
- Automated link management and verification tools
- Search "agents"
- Automated newsreaders
- E-mail reading/distribution interfaces
- ftp utilities
- Workgroup and collaborative utilities
- Automated e-mail response systems
- ftp site maintenance tools
- Batch processing tools
- Firewall support (Proxy, SOCKs, and Passive ftp)
- And much, much more

URL <http://www.allegiant.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 750 KB RAM; 1-4 MB hard disk space; System 7.1 or later; TCP/IP connection to the Internet.

T1928Z/B

\$149.95

Intelligence at Large

MovieStar

Create "Fast-start" QuickTime movies and GIF89 web animations in a flash! With MovieStar, just cut-and-paste or drag-and-drop.

Use MovieStar to supercharge webpages, presentations, CD-ROM titles, and software projects. Add zooms, fades, wipes, animation, scrolling titles, voiceovers, music, and see-through effects.

For serious QuickTime developers, MovieStar provides a graphical interface to the modifier tracks, transitions, alpha channels, and other mechanics that make up QuickTime.

For serious designers, MovieStar effortlessly mixes illustrations, sounds, styled text, and 3D graphics from other programs. MovieStar—honored as one of the first three winners of Apple's "QuickTime Hot Pick" award!

URL <http://www.beingthere.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68040 or greater processor; 4 MB RAM; 6 MB hard disk space; System 7.5.1 or later; CD-ROM drive.

T2015Z/A

\$149.95

EveryWare Development Corp.

Tango

Tango is the premier Intranet Rapid Application Development (IRAD) tool that integrates your web-server with databases such as Oracle, Informix, Sybase, SQL Server, Butler SQL, and FileMaker Pro—without writing HTML, SQL or CGI code.

Features

- ODBC data source support
- Intuitive drag-and-drop interface
- Full support for database joins
- Support for global variables
- Support for all HTML form field types
- IF...THEN processing
- Access to all standard CGI parameters

URL <http://www.everyware.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; Tango Editor—4 MB RAM; Tango.acgi—2 MB RAM; System 7.5 or later; CD-ROM drive.

Tango ODBC

T1973Z/A

\$995.00

Tango for Butler SQL

T1972Z/A

\$349.00

Tango for FileMaker

T1993Z/A

\$349.00

Nisus Software, Inc.

Nisus Writer 5.0

Nisus Writer 5.0 is powerful, flexible and surprisingly easy to learn and use to its fullest, and it's the first word processor to be a Live Objects container for the Power Macintosh! It is based on the new OpenDoc technology which allows you to easily enhance functionality by adding "off-the-shelf" Live Objects or components.

Nisus Writer also incorporates many of the newest system features such as QuickDraw GX printing and AppleScript. You will also find an HTML file format export option, Unlimited Undos, Noncontiguous Selection, Tables, a powerful Search Tool, customizable Keyboard Menu Equivalents, complete graphics creation, and an especially powerful Macro Language for automating repetitive tasks.

URL <http://www.nisus-soft.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; RAM required: 68K machines—4 MB; PowerPC—8 MB; 22.5 MB hard disk space (full install); System 7 or later.

T1873Z/B **\$149.00**

Apple Computer, Inc.

Apple Internet Connection Kit 1.1

The Apple Internet Connection Kit brings together all the best-of-class applications you need to access the Internet directly. Exchange e-mail with more than 30 million users, visit World Wide Web sites, and download files right to your desktop. Take advantage of Internet resources and participate in a wide variety of electronic communities—all with the same full Internet access that major universities and corporations have. Registering with an Internet provider is easy—Apple's Internet Dialer application helps you sign up instantly. Apple Internet Connection Kit also provides all the help (via Apple Guide) and documentation you need, even if it's your first time online.

The Apple Internet Connection Kit includes

Netscape Navigator, Apple Internet Dialer, QuickTime VR Player, Fetch, Claris Emailer Lite, NewsWatcher, Adobe Acrobat Reader, Aladdin Stuffit Expander, and more.

Requirements

Macintosh or Mac OS-compatible computer with a 68030 or greater processor; 8 MB RAM (12 MB recommended); 21 MB hard disk space; System 7.5 or later; CD-ROM drive; 9600 b.p.s. or faster modem, or connection to a LAN with Internet access.

Single User

M4276LL/B (U.S. only) **\$44.95**

Books and References

For books and references in the Internet category, see pages 45 and 46.



Apple Computer, Inc.

TCP/IP

Create TCP/IP applications for the Macintosh by using the MacTCP Developer's Kit, which contains object code libraries and associated files for C development. Single-user packages include: TCP/IP protocols implemented as drivers; MacTCP stack and driver software: MacSNMP Client; Macintosh, TCP/IP, and Network agents; and MIBs and TCP/IP Connection User's Guide. TCP/IP Administration for Macintosh contains: the complete TCP/IP Connection product; MacTCP Admin and MacSNMP Admin software; MacTCP and MacSNMP Administrator's guide; TCP/IP Administration; Overview and Installation; and the TCP/IP Connection User's Guide.

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 2 MB RAM; System 7 or later. MacSNMP requires at least 4 MB RAM. Use of MacTCP on a LocalTalk network requires a DDP-IP gateway. Use of MacTCP on an Ethernet or Token Ring network requires the appropriate network interface.

TCP/IP Connection for Macintosh 2.0.4

M8113Z/B **\$59.00**

20-user license extension

This license extension contains no software.

M8115Z/B **\$69.00**

TCP/IP Administration for Macintosh 2.0.4

M8114Z/B **\$199.00**

Metrowerks, Inc.

Discover Programming with Java

Discover Programming with Java offers everything you need to start programming with Java, the amazing new object programming language from Sun Microsystems. You'll find the award-winning CodeWarrior IDE, an extensive Java toolset, an electronic version of *Learn Java on the Macintosh* by Barry Boone with Dave Mark and six Apple Guide files, the electronic tutorials that take you step-by-step through the learning process. Free technical support from Metrowerks with registration.

URL <http://www.metrowerks.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 16 MB RAM; 12 MB hard disk space; System 7.1.2 or later; CD-ROM drive.

T1960Z/A **\$99.00**

Mango Tree Software

TCP/IP Scripting Addition

TCP/IP Scripting Addition version 2.0 is the latest version of an award-winning utility. This scripting addition was the first to add Internet commands to scripts written in AppleScript, HyperCard, FaceSpan, and others. Common uses include sending e-mail or files through a script or CGI, automating file transfers, Gopher, NetNews, Telnet, verifying links in HTML documents, and quickly writing other Internet client-server programs. Sample scripts are included which implement many of these functions.

Features

- Supports Script Editor, FaceSpan, Scripter, HyperCard, and others
- Build Internet-savvy WebSTAR CGI scripts, including automated e-mail scripts
- Useful Internet samples included
- Quickly script frequent Internet activities and build Internet client-server projects
- Works with MacTCP and Open Transport

URL <http://www.mangotree.com/>

Requirements

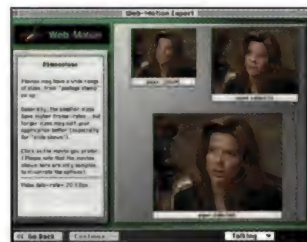
Macintosh or Mac OS compatible computer with a 68000 or greater processor; 2 MB RAM; 2 MB hard disk space; System 7 or later; MacTCP or Open Transport; TCP/IP connection to Internet or LAN; AppleScript 1.0 or later.

T2018Z/A **\$49.00**

Terrain Interactive

Web-Motion 1.0

Introducing the ultimate way for getting your video onto the web! Web-Motion, the first plug-in for the award-winning Movie Cleaner Pro, is packed full of



features to make your fast start QuickTime movies play back over the Internet better than ever before. With Web-Motion's built-in expert system you can see how video will playback given the constraints of the Internet, and quickly make the necessary adjustments. Now you can start viewing a movie while it is downloading and use the Web-Expert to ensure your video will look its best—even at extremely low data rates. Web-Motion will also create the HTML code you need to play the movie from your page! Compressing great video for the web has never been easier.

URL <http://www.terrain-int.com/>

Requirements

Movie Cleaner Pro, available on page 11.

T2024Z/A **\$129.95**

Apple Computer, Inc.

HyperCard 2.3.5 Value Bundle

NEW
VERSION

HyperCard is an easy-to-use authoring tool that lets you create compelling multimedia titles, education courseware/stacks, and a range of media- and data-rich software applications, using QuickTime movies, 24-bit color pictures, editing of color pictures, text and sounds. HyperCard organizes information into stacks of cards through which users can navigate and search for the information they need.

HyperCard is used by multimedia developers, commercial consultants, corporate information systems managers, courseware developers, and educators to create a wide range of custom applications.

It comes with powerful scripting support, a choice of scripting languages (HyperTalk and AppleScript are both included), a modeless editor, hypertext support, debugging tools, and other features.

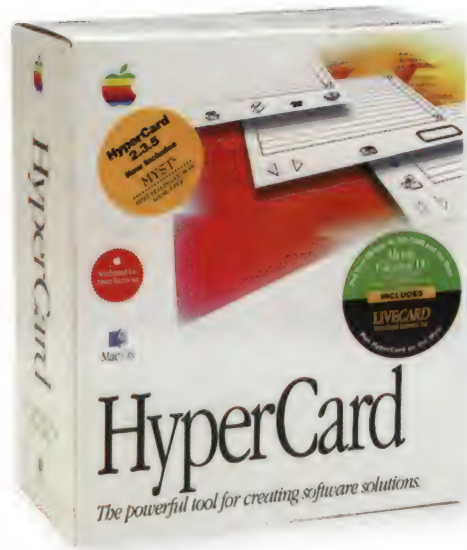
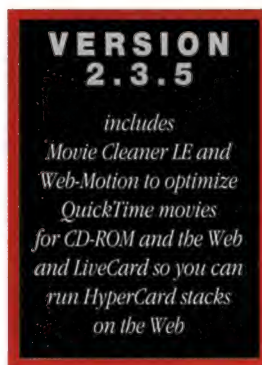
Using AppleScript, users can link HyperCard stacks with any of the more than 100 scriptable applications, such as Netscape Navigator, Claris FileMaker Pro, and Microsoft Excel.

HyperCard stacks can be saved as standalone, double-clickable applications that can be distributed without software royalty fees.

The HyperCard 2.3.5 Value Bundle includes: *Myst*—the highly-acclaimed game, created mostly in HyperCard; *Movie Cleaner LE* and *Web-Motion*—expert systems to optimize QuickTime movies for playback on CD-ROMs and the Web; and *LiveCard*—works with HyperCard to run stacks on the Web that can be viewed in any major Web browser on any platform (Windows, OS/2, and UNIX). *LiveCard* requires an intranet or Internet connection and a personal webserver (time-limited version of WebSTAR is provided).

Features

- Accelerated for Power Macintosh
- New 24-bit color painting tools for creating your own color graphics
- Automated Button Tasks that let you navigate



between cards, add QuickTime movies, graphics, and sounds to your stacks with no scripting required

- Read text out loud in various voices via PlainTalk
- Multimedia Utilities Bundle provides value-added tools for morphing, editing QuickTime movies, and more
- Electronic documentation

Requirements

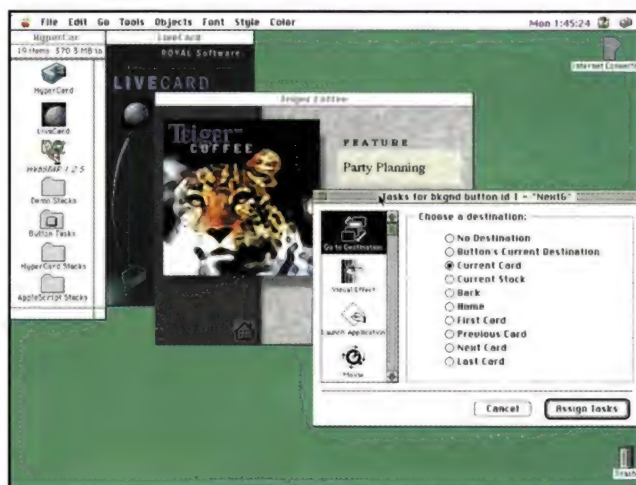
- Macintosh or Mac OS-compatible computer with a 68000 or greater processor; QuickTime Tools require a 68020 or greater processor; Text-to-speech function requires a 68040 or greater processor.
- At least 2 MB of RAM required for HyperCard 2.3; 4 MB of RAM required for System 7.0 or later; QuickTime Tools, and AppleScript; at least 5 MB of RAM is recommended when using Color Painting Tools.
- 12 MB hard disk space for HyperCard only; bundled software have additional disk and RAM requirements.
- System 6.0.5 or later; System 6.0.7 required for Color Tools; System 7.1 or later required for AppleScript, HyperCard Button Tasks, and the Standalone Application builder.
- QuickTime Tools requires the QuickTime system extension; Text to Speech function requires PlainTalk software (included).
- Multilingual HyperCard applications may require WorldScript software and/or international versions of AppleScript software.
- CD-ROM drive required



HyperCard 2.3.5 Value Bundle

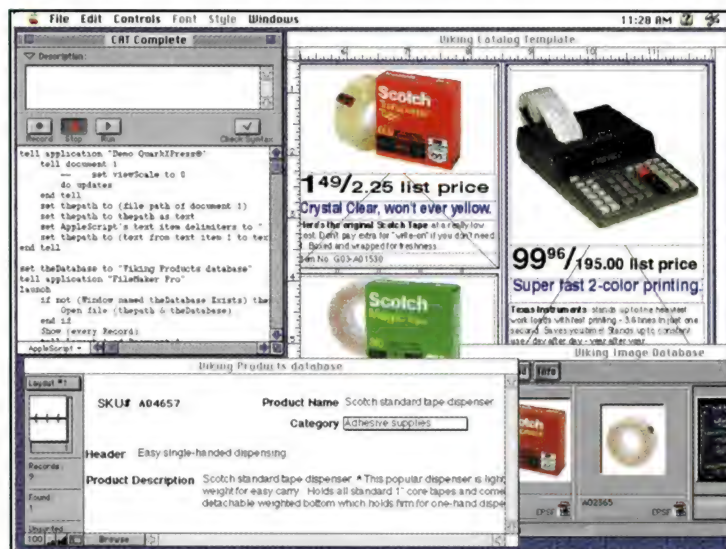
M2365Z/C

\$99.00



Apple Computer, Inc.

AppleScript Software Development Toolkit 1.1



This is the complete AppleScript package for commercial developers who want to make their applications scriptable. By building AppleScript support into your applications, you increase the value of your product to your installed base of customers. Users can customize your application for their specific needs and can generate scripts simply by recording user actions.

- AppleScript language, system software extension, and script editor
- FaceSpan 1.0, the interface processor from Software Designs Unlimited Inc. which provides the look and feel of professionally engineered Macintosh applications
- Development tools, sample code, and electronic documentation on CD
- Finder Scripting software that lets you control standard Finder operations

The AppleScript Software Development Toolkit includes the following components:

- Developer's redistribution license for AppleScript System software extension and FaceSpan runtime code

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 4 MB RAM; 5 MB hard drive space; System 7 or later; CD-ROM drive.

R0175Z/C

\$49.00

**For training with AppleScript,
see the Developer University class
listings for "Scripting with
AppleScript" on page 39.**

Digital Technology International

FaceSpan 2.1

If you're looking for a flexible way to automate often-repeated tasks—either for yourself or for the people you work with, FaceSpan is the answer.

FaceSpan is an extensible Rapid Application Designer (RAD) that makes building applications quick and easy. It combines an interactive, visual interface designing environment with the object-oriented power of AppleScript or any OSA (Open Scripting Architecture) language.

Use FaceSpan to customize your Macintosh computing environment and build integrated solutions from scriptable applications like Excel, Word, WordPerfect, FileMaker, 4th Dimension, Oracle, Butler, HyperCard, FoxPro, Eudora, Netscape, MacHTTP, DeltaGraph, Canvas, Photoshop, SAS JMP, InfoDepot, PhonePro, PageMaker, and QuarkXpress.

FaceSpan's visual interface design tools let you design applications that are as simple or as sophisticated as you need. You can give them the standard Macintosh look and feel (for traditional productivity, business, or utility applications), or you can be as creative and colorful as you please (for multimedia and presentation programs). Your FaceSpan applications can include any number of windows,



dialogs, palettes, and menus, in which you can display multi-column tables, scrolling lists, movies, pictures, icons, buttons, pop-up menus, scrolling text, and much more.

The multi-window visual editing and execution environment lets you test your scripts and interfaces immediately. It offers online references for itself and for any scriptable application. It even helps you generate scripts automatically.

FaceSpan allows you to integrate the capability of other programs into your custom application. Now you have the flexibility, power, and user-friendliness you expect from your Macintosh. FaceSpan—the perfect choice for MIS professionals, power users, consultants, and programmers!

Features

- Print multiple pages with sophisticated layouts
- Script essential elements of the FaceSpan application itself
- Pay and record sounds, import sounds into your project, and play them back
- Create miniature or complete applications that will run on either PowerPC or 68K computers
- Use precise time measurement for implementing timed behaviors
- Automate non-scriptable applications
- Easily translate your complete applications into another language
- Different name and title properties are optional
- Proportionally scale PICT images
- Align images in a pictbox
- Monitor and respond to low-memory situations
- Increased support for Frontier UserTalk

URL <http://www.dntint.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 1.5 MB of RAM; 7 MB hard disk space; System 7.5 or later; AppleScript 1.1.

T1719Z/B

\$299.00

Late Night Software Ltd.

Script Debugger 1.0



Main Event Software

Scripter 2.0 with ScriptBase

For professionals, for novices, for webmasters, for solutions providers, there's only one serious choice.

Scripter. The ultimate authoring and development environment for AppleScript. From Main Event, the Macintosh scripting company.

At once the most powerful, feature-packed, and easiest-to-use AppleScript editor and debugger, Scripter introduces still more unique features in its new version 2.0:

Features

- **Handler debugging:** Debug your handlers without modifying your scripts.
- **Applet simulation:** Debug interactively live interapplication messages destined for a script application or AppleScript CGI from your webserver or another application.
- **Live editing:** Debug script applications and CGIs in their normal environment. You won't have to modify your webpages or your CGIs.
- **Object map:** Explore the only accurate graphical view of the class hierarchy of scriptable applications.
- **Associated terminology:** Easily write and compile scripts containing handler declarations and other vocabulary specific to a particular scriptable application, such as FaceSpan or HyperCard.
- **Additional goodies:** Search backwards; block generators; more navigation shortcuts; more drag-and-drop; and even more enhanced trace log.
- **Better performance:** Faster compilation options, faster search-and-replace, faster on PowerBooks.
- **Now, a \$59 value, FREE with Scripter,** *ScriptBase*, the AppleScript object database: Store frequently used values and scripts in a central place; share your data between scripts; access *ScriptBase* directly from Scripter.

Scripter's capabilities have been carefully selected and crafted to work together with AppleScript to create a truly unique scripting experience. If you haven't used Scripter before, get the best-selling AppleScript authoring tool today and enjoy over 40 features, such as:

- The deepest script debugging tools available! Only in Scripter can you watch local variables, change variable values and fix problems while you step through a script, and trace your steps.
- Point-and-click assembly of commands and object specs; special window for experimentation.
- Enhanced editing; lots of drag-and-drop; 10-function find-and-replace menu.



Want a solid, reliable performer? Script Debugger delivers—and with speed. It completely replaces Apple's Script Editor and provides all the must-have features that seasoned and novice script writers demand.

Features

- No 32K limit on scripts
- True single-step execution of all AppleScript scripts
- A fast and powerful script editing environment including Find and Replace, and Drag-and-Drop editing
- A dictionary browser second to none—it's the only AppleScript tool with a graphical browser that shows you exactly how information within other applications is organized
- PowerPC Native
- Fully scriptable and attachable

With Script Debugger you can:

- Attempt larger and more complex scripts than with any other scripting tool available today.
- Diagnose bugs instantly.
- Learn about the scriptable applications you're using from the Dictionary window.

Script Debugger recently received a five-mouse rating in *MacUser* (UK Edition); a five-out-of-five rating in Germany's *MACopen* magazine; and four diamonds in *MacWEEK*.

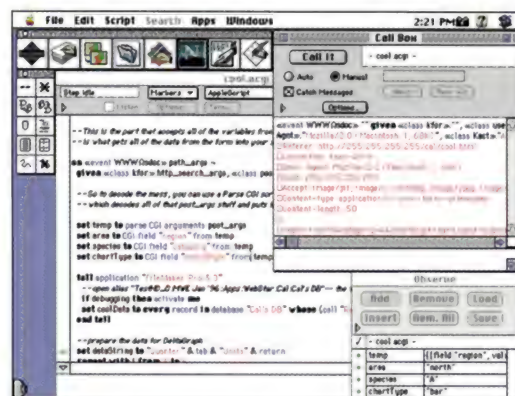
As a bonus, you receive two valuable pieces of software with Script Debugger: *The LNS Scripting Additions*, a collection of more than 70 new AppleScript commands; and *Scheduler*, a utility that lets you launch scripts at pre-determined times.

URL <http://www.latenightsw.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 2 MB RAM; 3 MB hard disk space; System 7 or later; Color QuickDraw.

T1759Z/A

\$129.00

- Many time-saving shortcuts for faster scripting.
- Integration with FaceSpan 2.x and HyperCard.
- And much, much more...

Using Scripter you can:

- Easily explore the capabilities of scriptable applications.
 - Put together scripts faster.
 - Create serious production automation systems.
 - Find bugs you didn't know you had, and fix them as they occur.
 - Break apart larger tasks into smaller pieces.
- Find out why Scripter earns the highest marks in reviews (including the rarely-awarded 5-diamond rating from MacWeek). Scripter is the natural companion to AppleScript. Don't write scripts without it!

URL <http://www.mainevent.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 3 MB RAM (4 MB or more recommended); 1 MB hard disk space; System 7 or later; AppleScript.

Note

Includes development version of *ScriptBase*. Inexpensive distribution licenses for *ScriptBase* are available from Main Event.

T1668LL/B

\$199.00

Heizer Software

WindowScript

WindowScript is the ultimate tool for designing Macintosh user interfaces using HyperCard. In the past, each HyperCard stack and Macintosh application had its own distinctive interface objects. Now, WindowScript brings the true look and feel of the Macintosh interface to HyperCard.

Features

- AppleScript support
- All kinds of dialog boxes, windows, and floating palettes
- Scrolling windows
- Scrolling lists of text, icons and pictures
- QuickTime movies—with or without controller
- Custom and standard menus and popups
- Color pictures, including scrolling pictures
- Icons, including color and Finder icons
- Text fields with mixed fonts, styles, sizes, even color and group text
- Standard radio, checkbox, and round rectangular buttons
- Graphic tools for drawing lines and boxes

Requirements

Macintosh or Mac OS-compatible computer with a 68030 or greater processor; 2 MB RAM; 2 MB hard disk space; System 6.0.5 or later.

T1530LL/A

\$149.00

PreFab Software, Inc.

PreFab Player

PreFab Player is a faceless background application (similar to a system extension) that lets your scripts query and control otherwise non-scriptable applications, desk accessories, and control panels. Player adds verbs that directly manipulate the Macintosh user interface: choose from menus and pop-ups, select radio buttons, type text, determine the name of the frontmost window, the state of a checkbox, etc. Balloon Help identifies non-standard dialog items.

Player Runtime offers a simple, inexpensive way to distribute scripts and updates.

With Player, developers can now use a standard scripting system for automated testing; system managers and consultants can fill the gaps in corporate solutions; multimedia creators can batch process their favorite tools; and power users can automate tedious, dull, and time-consuming tasks.

URL <http://www.tiac.net/prefab/>

Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 300 KB RAM; 200 KB hard disk space; System 7 or later; AppleScript or Frontier.

Note

Includes one Runtime license; additional Runtime licenses are \$25 each and are available from the manufacturer.

T1876Z/A

\$95.00

Heizer Software

CompileIt!

CompileIt!, the first HyperTalk compiler, is a complete development system for the creation of XCMDs and XFCNs.

Features

- Expand the capabilities of your environment by using CompileIt! and the ROM Toolbox extensions
- Increase the speed of routines written in HyperTalk by turning scripts into externals
- Protect sensitive code from prying eyes because your code is now compiled
- Easily learn Macintosh programming by exploring the ROM Toolbox

It includes DebugIt!—a valuable source-level debugger for externals created with CompileIt!

Requirements

Macintosh or Mac OS-compatible computer with a 68030 or greater processor; 1 MB RAM; 2 MB hard disk space; System 6.0.5 or later.

T1529LL/A

\$149.00

Brio Technology, Inc.

BrioQuery Enterprise 4.0

BrioQuery Enterprise is the original Desktop OLAP Query tool and has the distinction of being the first desktop application to combine professional query, reporting, and interactive analysis functions into one complete and easy-to-use product.

BrioQuery Enterprise offers elegant and powerful analysis capabilities. For IS professionals who must establish and manage end-user query systems, no other product does as much with so little effort.

Features

- BrioQuery Enterprise is the original Desktop OLAP tool
- The optimized, compact desktop database cache enables users to work effectively off-line
- BrioQuery Enterprise is the only complete solution with a consistent user interface that provides open-ended flexibility and control
- BrioQuery Enterprise allows users to leverage the business metadata that exists in most data warehouses
- Brio provides concurrent cross-platform releases on Macintosh, Windows, and UNIX platforms

URL <http://www.brio.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 4 MB RAM; 2.5 MB hard disk space; System 7 or later.

T1771Z/B

\$795.00

dtF Americas, Inc.

dtF/Mac 1.6 for C/C++

dtF is the high-performance SQL database system for Apple Macintosh. dtF/Mac for C/C++ features SQL, full transaction control, integrated error recovery, client/server architecture, a compact and easy-to-use API, MacApp, TCL, and PowerPlant sample source code. Separate A4-relative and FAR CODE/DATA libraries are available. dtF is the premier choice for developers who want to create high-powered, database-centered applications with no performance trade-offs. Applications created with dtF are compact, requiring minimal hard disk space and run-time memory. With dtF's unique direct integration technology, the dtF database system is contained in your executable enabling you to create double-clickable applications without additional drivers, extensions, or INITs. The API for dtF stand-alone and client/server versions is identical, allowing a smooth upgrade from stand-alone to client/server database applications.

Requirements

Server: Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 2 MB RAM; 110 KB hard disk space; System 7 or later; AppleTalk.

Stand-alone: Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 512 KB RAM; 350 KB hard disk space.

Stand-alone

T1768Z/B

\$695.00**Client/Server**

T1767Z/B

\$1,595.00

**To place an order
by e-mail,
please note our new
address:
order.adc@apple.com**

Apple Computer, Inc.

Oracle Power Objects 1.0

Oracle Power Objects software enables developers to deliver powerful client/server applications easier, faster, and with less coding than before, by combining the agility of visual programming environments with the robust data-handling capabilities of enterprise client/server tools. Applications are completely portable across Macintosh and Windows platforms so developers can deploy a single set of source code to an entire work group.

With Power Objects' Intelligent Data Management Architecture, you can create complex relational database functions visually, without coding. A "drag-and-drop" capability lets you move tables to a database server, propagate reusable components into multiple applications, copy databases from one server to another, and perform many other development functions with a click of the mouse. Power Objects provides the benefit of object-oriented programming—code reusability—in a way that non-programmers can master easily.

Versions of Power Objects are available for both individual and work group needs. Both the stand-alone and client/server packages include a compact SQL compliant local database.

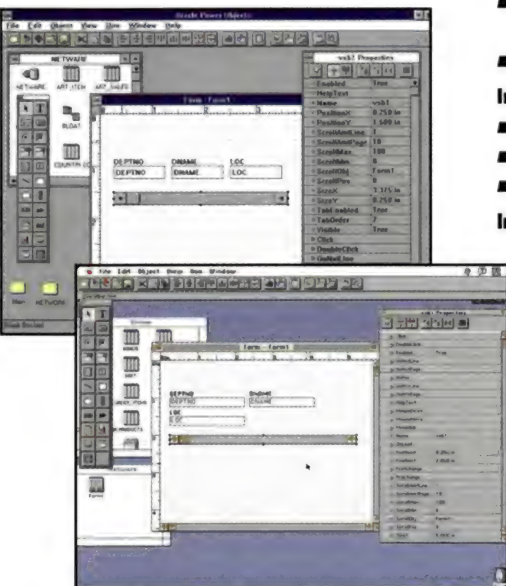
Features

Visual application development

- Management of complex database functionality without coding
- Programming options selectable from sample property sheet

Ease of use

- Comprehensive drag-and-drop functionality
- Visual creation of reusable application components
- True multilevel inheritance



Cross-platform compatibility

- Support for Oracle and SQL server databases (*Client/Server Edition only*)
- Macintosh and Windows deployment from same applications source code

Standards support

- BASIC language for scripting
- Drag-and-drop data migration from local SQL database
- Support for OLE, OCXs, and DLLs

Database connectivity

- Native drivers for Oracle7 databases, Sybase SQL Server (version 4.2 or higher) databases, and Microsoft SQL Server (version 4.2 or higher) databases (*Client/Server edition only*)
- SQL compliant database

Integrated database session manager

- Create, modify, restructure, view, and edit tables
- Create and modify table indexes and database views
- Create database sequence numbers
- Assign connection information

Integrated development environment

- Graphical application manager for displaying all application components
- Full support for OLE 2.0, OCXs, and DLL calls under Windows 3.x
- Ability to create reusable application components directly in the product

Integrated graphical forms designer

- Property sheet that allows customization for components without codes
- Built-in tools for alignment and tab order
- Standard components for buttons, checkboxes, radio buttons, list boxes, combo boxes, graphics text fields, and more
- Data-aware objects for data fields, repeater controls, scroll bars, and more
- Extensibility through standard OCX controls

Integrated banded report writer

- Adaptive load balancing for any data size
- Custom group specifications
- Multilevel sorting

Integrated BASIC editor, debugger, and compiler

- Full graphical debugging
- Graphical object hierarchy diagram
- Conditional breakpoints and watchpoints
- Step-through, step-in, and step-over code execution tracing
- Evaluation and modification of expressions and variables



Oracle BASIC scripting language

- Same syntax as Microsoft Visual Basic
- Structured, object-oriented language
- Full support for inheritance, polymorphism, and encapsulation

Local database

- SQL compliant
- Support for compiled fields
- Support for outer joins and join expressions
- Binary field support for multimedia applications

Requirements

One of the following computer systems:

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 12 MB RAM; 10 MB hard disk space;

System 7.0 or later.

IBM PC or compatible computer with a 80386 or later processor (80486 recommended); 12 MB RAM; 10 MB disk space;

Windows Version 3.1.

For connection with remote databases:

SQL*Net (any version 1.1.8x through 2.0x)

For connection to SQL Server databases:

On a Macintosh system, Sybase OpenClient/Server Release 10.02 for Macintosh.

On a Windows system, Microsoft SQL Server 4.21 Client for Windows 8.1 or Sybase OpenClient/C for PC/MS Windows v.10.01.

Oracle Power Objects for Macintosh

M4417Z/A **\$99.00**

Oracle Power Objects Client/Server Edition for Macintosh

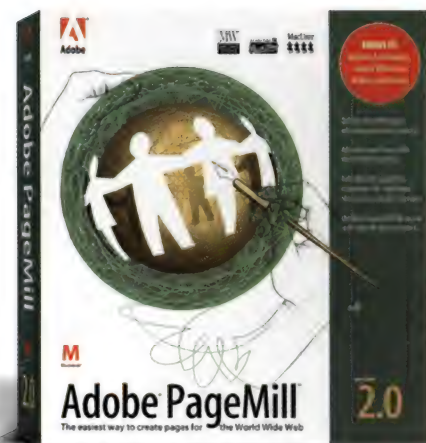
M4419Z/A **\$1,499.00**

Oracle Power Objects for Windows

M4418Z/A **\$99.00**

Oracle Power Objects Client/Server Edition for Windows

M4421Z/A **\$1,499.00**



With Adobe PageMill...

creating Web pages is as easy as using your favorite word processor!

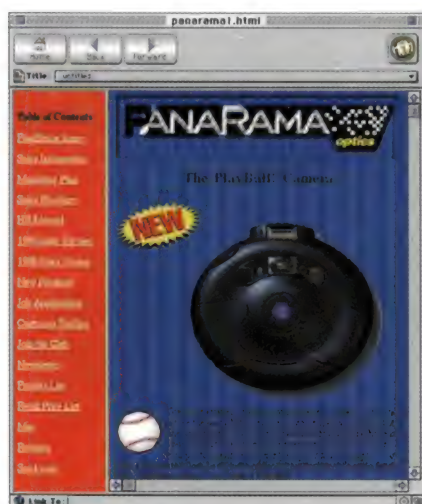
Now you can create full-featured Web pages without having to know a thing about HTML or URLs. That's because Adobe PageMill software makes building your Web pages a simple, drag-and-drop operation! Just type in text or import it directly from standard office applications. Do the same with images—PageMill automatically converts them to the appropriate format. Then, resize your images easily, and align your text any way you want, including flowing it around your images. What you see is truly what you get!

PageMill also gives you elegant and powerful support for popular HTML features. Quickly add frames to your Web page, for example, and then add a table and lay it out with the WYSIWYG editor. You can even cut and paste a table directly from your spreadsheet! Add colored text and background images as well. The Image view lets you create image maps or linked hotspots, and make images transparent or interlaced by simply clicking the mouse. Add form elements such as text fields and buttons. Include audio, video, animated GIFs, and even Adobe Portable Document Format (PDF) files, all of which you can resize, copy, and place in an easy and familiar way. There's even an integrated source code editor that offers color-coded, drag-and-drop access for adding your own HTML. Creating links is just as easy: simply drag a page icon from one document and drop it into another.

For multicolumn text, you can add easy-to-edit tables. Embed audio clips, QuickTime movies, Shockwave files, animated GIFs, and even Adobe



Portable Document Format (PDF) files in your Web page with simple drag-and-drop actions. There's even an integrated source-code editor for adding and formatting HTML text.



tent, icon bars, and advertising banners. Align text any way you want—even wrap it around images to save space. The find-and-replace tool makes it easy to manipulate text, images, and links.

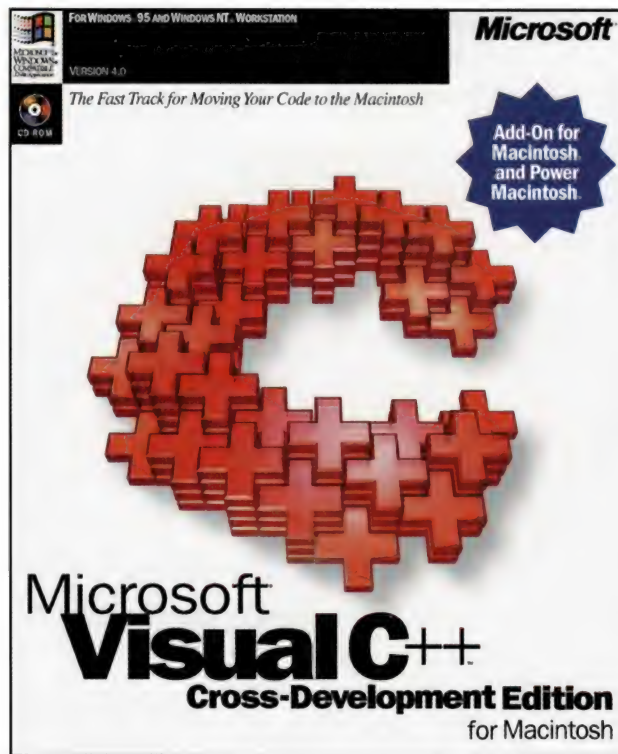
PageMill ensures that the links remain correct as you copy and paste them throughout your Web pages. You'll find familiar features, such as a spelling checker and a find-and-replace tool that works for text, image files, and links. You can use the multipage pasteboard for frequently used items. And once done, the PageMill output works with all standard Web servers and browsers.

See page 21 for ordering information.

Adobe PageMill 2.0 software lets you quickly add frames to your Web page for tables of con-

\$99⁰⁰





Bring out the best in both worlds.

Using just one toolset to target multiple platforms, you can increase your user base and knock months off your development time. With Microsoft Visual C++ Cross-Development Edition for the Macintosh*, you can reuse up to 90% of your code from your Windows-based applications to create the same applications for the Macintosh, with the familiar Macintosh interface.

Features

- *Port Windows-based features* easily to the Macintosh, including multiple document interface, print preview, and floating toolbars. The Windows Portability Library does the work for you.
- *True native Macintosh programming*: Program directly to the System 7 API to take advantage of unique Macintosh features such as Publish and Subscribe.
- *Recompile for the Mac*: Target both the Windows and Macintosh operating systems using just one set of source code written to Microsoft Foundation Classes and the Microsoft Win32 API.

- *Power Macintosh support*: Including a fully optimizing compiler and integrated debugger that adapts to the PowerPC chip when displaying information in the register contents and disassembly windows.
- *Code Fragment support* for the Power Macintosh, which translates to better code sharing among applications and faster, trimmer applications with very little development overhead.
- *OLE support*: You can now easily port your Win32 and MFC OLE applications to the Macintosh using OLE for the Macintosh version 2.06.
- *ODBC support*: You can call ODBC directly or use it through the appropriate MFC classes.

For ordering and pricing information, see page 17.

Microsoft®

*This add-on toolset requires Visual C++ for Intel platforms, available separately.

(C)1995 Microsoft Corporation. All rights reserved. Microsoft, Visual C++, Win32, Where do you want to go today?, and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries. Macintosh is a registered trademark and Power Macintosh is a trademark of Apple Computer, Inc., used under license. Mac is a trademark of Apple Computer, Inc. Intel is a registered trademark of Intel Corporation. PowerPC is a trademark of International Business Machines Corporation.

Pictorius, Inc.

Entrada! Developer and Corporate

Entrada! is a powerful rapid application development client/server environment for creating databases and complex compiled applications for the Internet, intranets, and LANs. A year of free support, and updates. Compilers are included for 68K and Power Macintosh computers.

Features

- Visual and object-oriented down to the Mac Toolbox
- Framework of dialogs, menus, and editors to streamline development
- Automatic input and output window generation and SQL code generation
- True client/server architecture
- Full source code included
- Butler and dtF database connectivity with Developer version—ODBC compatible
- Additional Oracle and Sybase connectivity in Corporate version

URL <http://www.pictorius.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68040 or greater processor; 20 MB RAM; 50 MB hard disk space for Entrada! Developer; 60 MB hard disk space for Entrada! Corporate; System 7.0 or later.

Entrada! Developer
T1900Z/B **\$1,495.00**

Entrada! Corporate
T1901Z/B **\$2,495.00**

INTERSOLV

INTERSOLV DataDirect ODBC Pack

INTERSOLV DataDirect ODBC Pack, an integral part of INTERSOLV's Virtual Data Warehousing solution, is a comprehensive suite of ODBC drivers that connect ODBC-compliant applications across multiple platforms to all major databases and gateways. These drivers allow you to seamlessly access important corporate data from the familiar desktop applications you use everyday.

INTERSOLV DataDirect ODBC Drivers are now available across eight operating systems including Macintosh, Windows 3.1, Windows NT, OS/2, Sun Solaris, HP-LX, AIX, and Windows 95. ODBC drivers are the critical link between an ODBC-enabled application and an individual database.

INTERSOLV DataDirect ODBC Drivers are the industry standard and are embedded in more than 60 independent software vendor products.

A key component of the INTERSOLV Development Suite, the award-winning DataDirect ODBC Drivers offer robust support for the widest base of operating systems and databases available in the industry.

URL <http://www.intersolv.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 4 MB RAM; 6 MB hard disk space; System 7 or later.

T1761Z/A **\$499.00**

Claris Corporation

FileMaker Pro 3.0

FileMaker Pro software is the only relational database application designed to help you easily manage and share information in the real world. Starting with raw data, it's fast and easy to create working databases—or use one of the more than 40 fully designed templates for instant business, education and home solutions.

In addition, the Claris Solutions Alliance (CSA) offers a wide variety of FileMaker Pro 3.0 services ranging from quick, practical training to customized and ready-made solutions. For information on CSA, call 1-800-3CLARIS.

URL <http://www.claris.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 4 MB RAM (8 MB recommended for 680x0 computers and required for Power Macintosh computers); System 7.0 or later; CD-ROM drive.

Note

Product available through catalog to U.S. customers only. Customers located outside the U.S. should contact the manufacturer for resellers in their area.

T1717LL/B (U.S. only) **\$199.00**

EveryWare Development Corp.

Butler SQL 2.0

Butler SQL is the premier client-server relational database system for the Macintosh and Power Macintosh. With Butler SQL you'll discover for yourself the superior performance and flexibility of the only SQL client-server database for the Macintosh platform.

Butler SQL is bundled with CLEAR:Access, a visual query and reporting tool from Sterling Software Inc.

Features

- Open Database Connectivity (ODBC) support
- ODBC drivers for Macintosh and all flavors of Windows (3.1, 95, and NT)
- Support for TCP/IP connections
- Support for Macintosh and Windows clients

Requirements

Macintosh or Mac OS-compatible computer with a 68020 or greater processor; 4 MB RAM; 4 MB hard disk space; System 7.5 or later; CD-ROM drive.

Butler SQL-5 user

T1970Z/A **\$695.00**

Butler SQL unlimited users

T1971Z/A **\$1,995.00**

Claris Corporation

FileMaker Pro 3.0 Server

FileMaker Pro 3.0 Server is a powerful relational network server which delivers dramatically faster multiuser performance and new centralized network management tools across AppleTalk, IPX/SPX and TCP/IP networks. With optimized indexing and record locking, workgroup users can realize significant performance gains.

In addition, the Claris Solutions Alliance (CSA) offers a wide variety of FileMaker Pro 3.0 services ranging from quick, practical training to customized and ready-made solutions. For information on CSA, call 1-800-3CLARIS.

URL <http://www.claris.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68030 or greater processor; 8 MB RAM; System 7.1 or later; CD-ROM drive; Thread Manager (included with application); multiuser file sharing support (AppleTalk, IPX/SPX, or TCP/IP); TCP/IP networking requires Open Transport 1.0.8 or later.

Note

Product available through catalog to U.S. customers only. Customers located outside the U.S. should contact the manufacturer for resellers in their area.

T1780LL/B (U.S. only) **\$999.00**

Visigenic Software Inc.

VisiODBC Drivers

The Visigenic VisiODBC Drivers provide high performance data access to multiple SQL databases without the complexity of native database APIs. The products support the most comprehensive set of client/server platforms—including Macintosh and Power Macintosh, Windows, Windows NT, Windows 95, IBM AIX, HP-UX, SCO, Solaris, Sun OS, and OS/2—making them the only cross-platform ODBC solution. The VisiODBC Drivers include Informix, Microsoft SQL Server, and Oracle on the Macintosh platforms, as well as CA-Ingres, Sybase, and IBM DB2 on other platforms.

URL <http://www.visigenic.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68030 or greater processor; 10 MB RAM; 2 MB hard disk space; System 7.5 or later; CD-ROM drive.

Note

Price is per driver and per user, with a minimum of five.

VisiODBC Oracle Driver (PPC)

T1990Z/A **\$95.00**

VisiODBC SQL Server Driver (68K/PPC)

T1991Z/A **\$95.00**

VisiODBC Informix Driver (68K)

T1992Z/A **\$95.00**

Excel Software**MacAnalyst 5.1**

MacAnalyst automates software engineering methods to analyze, design and specify requirements for software systems. Data flow diagrams illustrate the flow and processing of information in a system. State models identify states, events and actions. Data and screen models are ideal for quickly organizing database information and prototyping user screens. Object-oriented class diagrams and state modeling methods include OMT, Booch, Shlaer/Mellor, Fusion, Coad/Yourdon, and Jacobson.

MacAnalyst has an integrated data dictionary that combines different diagram views into a cohesive project. The Requirements window supports requirements specification and use cases with instant bidirectional traceability between requirements and design diagrams. MacAnalyst documents are compatible with WinA&D for Windows 95/NT.

URL <http://www.excelsoftware.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 8 MB RAM; 15 MB hard disk space; System 7 or later.

T1666LL/C

\$995.00

Excel Software**Translator 1.0**

Generate multi-level structure charts automatically from existing C, Pascal, BASIC, or FORTRAN code using the Translator with MacDesigner. Use Translator and MacAnalyst to generate class diagrams from C++ or MPW Object Pascal showing inheritance structure with Booch, OMT, Shlaer/Mellor, and Coad/Yourdon notations. Double-clicking diagram objects reveals source code using the integrated code browser.

URL <http://www.excelsoftware.com>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 6 MB RAM; 10 MB hard disk space; System 7.0 or later.

T1834Z/A

\$495.00

Excel Software**MacDesigner 5.1**

MacDesigner supports software engineering methods including structured, object-oriented, and multi-task design. Structure charts show module organization in procedural programs, while object diagrams show the design mechanism in an object-oriented design. It includes code editing and browsing using the built-in Browse window and a data dictionary for defining design details.

The integrated requirements window provides traceability from requirement statements to design diagrams, code, or test procedures. Real-time, multi-tasking systems can be designed showing threads of execution, interrupt service routines, and operating system services like queues, mailboxes, and semaphores. This tool is used for detailed design and maintenance of software development projects.

MacDesigner documents are compatible with WinA&D for Windows 95/NT.

URL <http://www.excelsoftware.com>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 8 MB RAM; 15 MB hard disk space; System 7 or later.

T1764Z/B

\$995.00

MultiQuest Corporation**S-CASE 3.0**

S-CASE is a flexible, object-oriented analysis and design tool that helps software developers take on complex problems and deliver solutions that are clean, robust, and easy to understand. It supports the Booch notation as well as the new Unified Modeling Language to graphically illustrate and model software systems.

S-CASE provides a built-in C++ code generator that helps implement your systems faster. This code generator is written entirely in Tcl (a popular scripting language) and can be modified to generate other languages.

S-CASE comes with an integrated parser that enables reverse engineering of existing C++ code. Use this feature to understand undocumented class libraries and applications.

S-CASE enables teams of analysts, designers, and engineers to work on the same model. It is designed to work with existing configuration management tools to provide controlled access to your models.

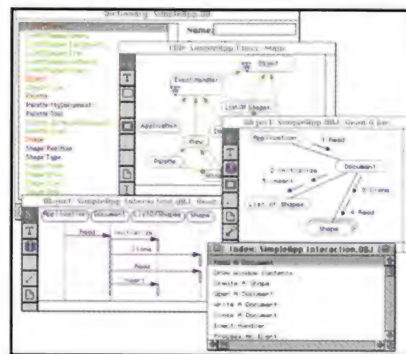
URL <http://www.multiquest.com/>

Requirements

Macintosh or Mac OS-compatible computer with 68040 or greater processor; 8 MB RAM; 4 MB hard disk space; System 7 or later.

T1871Z/B

\$495.00

**Excel Software****MacA&D 5.1**

MacA&D, winner of the CIO Magazine Readers' Choice Award in the category of Macintosh CASE tools, provides an integrated solution for object-oriented analysis and design. Methods include Booch, OMT, Shlaer/Mellor, Jacobson, Fusion, and Coad/Yourdon. Structured analysis and design methods include Yourdon/DeMarco, Gane and Sarson, and Hatley/Pirbhai.

Create data models using Information Engineering, Chen, or Shlaer/Mellor notations; then generate foreign keys and SQL code automatically. Track requirement statements to diagrams, or test procedures by double-clicking. Share information across a network using the multi-user, team dictionary, and requirement documents.

Generate structure charts from existing C, Pascal, BASIC, or FORTRAN code, or class diagrams from C++ or Object Pascal using the companion Translator utility.

Features include cut, copy, paste, publish, subscribe, text import/export of diagrams, dictionary, Balloon Help, and scalable, multi-page, multi-level diagrams with index window for easy navigation.

Features

- Structured analysis and design
- Object-oriented analysis and design
- Real-time and multi-task design
- Data and screen modeling
- Integrated code editing and browsing
- Multi-user dictionary and requirements
- Code to design diagrams for C, C++, etc.
- Design diagrams to code for C, C++, etc.
- State modeling diagrams and tables
- Use cases with traceability

URL <http://www.excelsoftware.com/>

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 8 MB RAM; 15 MB hard disk space; System 7 or later.

Special User Notes

Call 1-515-752-5359 for educational, site licensing, update service and on-site training prices. Ask for your free technical brochure.

MacA&D 5.1

T1766Z/B

\$1,995.00

MacA&D 5.1 Demo & Manuals

T1833Z/B

\$75.00

Apple Computer, Inc.

Macintosh Application Environment (MAE) 3.0



Macintosh Application Environment (MAE)—the virtual Macintosh for UNIX systems—is an innovative software product that provides a complete Macintosh environment in an X Window, allowing you to run Macintosh 680x0 applications right on your workstation.



MAE brings the functionality and ease-of-use of the Macintosh computer to Sun Microsystems SPARCstations running the Solaris operating system, as well as to Hewlett-Packard Series 700 workstations running HP-UX.

Because MAE supports AppleTalk networking, it's easy to share printers, files, and e-mail with other Macintosh and MAE users on a network, and MacTCP support lets you run Internet-based applications.

Version 3.0 now offers dramatic performance gains for all applications and for remote X window display, floating licenses with FLEXlm technology, and much more.

Since MAE 3.0 is based on Macintosh System 7.5.3, you can easily run the most popular off-the-shelf Macintosh software—including popular spreadsheet, desktop publishing, word processing, graphics, e-mail, workgroup, calendar, and business applications.

MAE also seamlessly integrates with the UNIX environment, allowing you to copy and paste text and graphics between UNIX and Macintosh applications. MAE lets you open UNIX files (including NFS-mounted volumes), access UNIX applications through the Macintosh interface, and use system services (such as AppleTalk printers and UNIX PostScript printers).

Apple Computer, Inc.

Apple Remote Access Modem Toolkit 2.0



This product provides the tools and documentation you need to create modem connection scripts for the Apple Remote Access Client for Macintosh, Apple Remote Access Personal Server, or Apple Remote Access MultiPort Server. These scripts are necessary for establishing and terminating connections.

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 4 MB RAM; 200 KB hard disk space; System 7 or later; an Apple modem or Hayes-compatible modem (2400 baud minimum) and appropriate cable; HyperCard 2.0 or later; Apple Remote Access Client for Macintosh or Apple Remote Access Personal Server for Macintosh.

R0129LL/C

\$50.00

It's Faster, Easier, and More Flexible

■ Faster

Enhanced MAE 3.0 emulator now provides much better overall performance, resulting in a 20% average improvement over MAE 2.0. Optimized remote X graphics display results in a 10X network bandwidth reduction. MAE 3.0 is thus more network friendly and client/server capable. It is now feasible to run MAE on a supported UNIX platform and display it remotely on any platform supporting X11R5 or later, including SunOS, SGI IRIX, IBM AIX, DEC OSF/1, etc.

■ Easier

Macintosh System 7.5.3 support MAE 3.0 supports the complete base of Macintosh System 7.5.3 functionality including Macintosh PC Exchange, AppleScript, Drag and Drop, and Apple Guide.

Multiple Independent Volumes (MIVs) MIVs allow users to define any UNIX file system or directory as an independent volume that appears on the Macintosh desktop as a Macintosh volume. This enhancement provides an easier way to navigate through the UNIX file system, install applications, and use Find File on networked UNIX file systems.

■ More Flexible

Floating licenses MAE 3.0 includes the world's leading license manager—FLEXlm from GLOBETrotter Software, Inc. This gives system administrators a flexible and efficient way to manage MAE licenses on their network.

More file sharing security option MAE 3.0 supports an enhanced range of options that allow system admin-

istrators and users greater control over file sharing and volume access, both locally and remotely.

NFS file system improvements These enhancements provide better integration between UNIX and Macintosh file systems. NFS file systems are now auto-mounted on demand within MAE 3.0. Auto-mounted volumes are displayed on the MAE desktop as MIVs. MAE 3.0 also displays UNIX symbolic links (symlinks) as Macintosh aliases.

Better applications compatibility This includes improvements in MacTCP and AppleTalk, as well as control over application use of Apple Double and Apple Single file formats.

■ Makes networking easy

Through built-in support for AppleTalk, you can easily share documents, electronic mail, and printers with other MAE and Macintosh users, allowing for tighter integration between UNIX workstations and Macintosh-based administrative systems. And, support for MacTCP enables you to access the Internet and TCP/IP-based applications.

Note: Try MAE 3.0 for FREE! A fully-functional demo, valid for 30 days, can now be downloaded from the MAE website at <http://www.mae.apple.com/>

Requirements

Sun SPARC workstation with Solaris 2.4 or later; or HP 9000 Series 700 workstation with HP-UX 9.0.x or HP-UX 10.10 or later; X Window System 11, Release 5 or later; 32 MB RAM minimum, 48 MB recommended; 39 MB hard disk space, 75 MB recommended; local or network access to a CD-ROM drive for installation.

M2191Z/C

\$495.00

Apple Computer, Inc.

MacX 1.5

MacX 1.5, Apple's high-performance X Window System solution for the Mac OS, now delivers PowerPC-native performance and X11R5 standards compliance to users. MacX combines complete X Window System functionality with Macintosh ease of use for both new and experienced X Window System users. Not only can you display network-based X client applications on your Macintosh desktop—you can cut and paste text and color graphics between Macintosh applications and X clients.

With MacX, you can access X clients from a pull-down menu, and display X clients in familiar Macintosh windows for easy moving and resizing.

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 5 MB RAM (8 MB recommended) for 68K-based computers; 8 MB (16 MB recommended) for PowerPC processor-based computers; 8 MB hard disk space; System 7.1 or later; access to a UNIX or VMS host via an Ethernet or Token Ring connection, or via LocalTalk with a DDP/IP gateway; CD-ROM drive.

M0108Z/E

\$149.00

Special Offers

Save \$70 if you already own a previous version of MacX.

R0688Z/A

\$79.00

Owners of an eligible competitor's product can save \$50.

R0687Z/A

\$99.00

Apple Computer, Inc.

Apple Internet Router Administrator's Toolkit 3.0

Designed to give network administrators greater flexibility in configuring the Apple Internet Router, this kit allows for easy sharing of host lists for users of the AppleTalk/IP Wide Area Extension.

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 4 MB RAM; 300 KB hard disk space; System 7 or later.

R0490LL/A

\$199.00

Apple Computer, Inc.

Electronic Guide to Macintosh Human Interface Design



The full electronic text of the award-winning classic book, *Macintosh Human Interface Guidelines* and its award-winning CD-ROM companion, *Making It Macintosh*, are on one convenient, easy-to-use CD. Hypertext links make for easy navigation between the book and the animated examples in *Making It Macintosh*.

Requirements

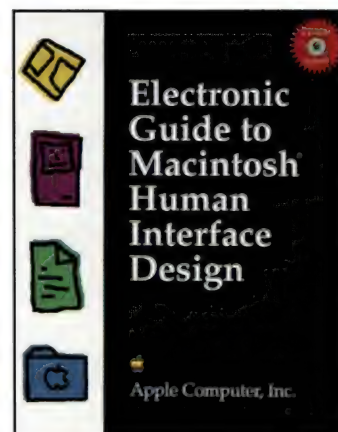
Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 8 MB RAM; System 7 or later; CD-ROM drive; 13-inch color monitor; QuickTime.

Electronic Guide to Macintosh Human Interface Design (CD-ROM)

R0450LL/B **\$49.95**

Macintosh Human Interface Guidelines (Book)

A7G0025/B **\$24.95**



Apple Computer, Inc.

Inside Macintosh CD-ROM



Now you can have instant access to more than 16,000 pages of information contained in the complete *Inside Macintosh* suite—all in one place at your fingertips. Good Macintosh software applications are definitive, meticulously detailed, clearly written, and logically structured. So why shouldn't Macintosh programming reference material be the same way? As a matter of fact, it is. And now it's all on one CD.

The *Inside Macintosh* CD-ROM contains the electronic text for 25 books from *Inside Macintosh*—the essential resource for Macintosh programmers, engineers and designers.

Also included on the CD is the text

for *Macintosh Human Interface Guidelines*, an important companion to the *Inside Macintosh* series.

The CD features Apple DocViewer collection files which allow you to search the library and retrieve information in ways that are unique to the electronic medium—directly from your computer and conveniently from one CD.

You also get the *Inside Macintosh X-Ref*, which contains a master index, several specialized indexes, a list of result codes, and a glossary, all compiled from the 25 *Inside Macintosh* books.

Inside Macintosh CD-ROM is the ultimate electronic reference to the Macintosh programming series. If you're a Macintosh programmer, you shouldn't be without it.

Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 1 MB RAM; System 7.0 or later; CD-ROM drive.

T1575LL/A **\$89.95**

Apple Computer, Inc.

Macintosh Programmer's Toolbox Assistant CD-ROM



Have you ever needed to find current information about using a crucial Macintosh toolbox call while in the middle of writing your application? Now with just a click of your mouse, you can get instant access to more than 5,000 toolbox calls that are at the heart of Macintosh system software. Macintosh Programmer's Toolbox Assistant is an invaluable CD-ROM database that will help you find key data structures, resources, constants, and functions when you need them the most.

Fast Search and retrieve the specifications of more than 5,000 toolbox calls

Convenient Copy and paste routine templates and sample code into your application

Easy Navigate related information with hypertext

Features

- Contains all routines, data structures, and constants as documented in *Inside Macintosh*, including the QuickDraw GX and AOC libraries
- Uses a modern search engine technology to provide fast search and retrieval
- Is directly accessible from most of the popular Macintosh development environments
- Connects related information with abundant hypertext links to allow for easy navigation
- Indexes routines, managers, and data structures to group the information you need in the most convenient way
- Includes routine templates and sample code that can be copied and pasted into your application's source code



Requirements

Macintosh or Mac OS-compatible computer with a 68000 or greater processor; 1 MB RAM; 20 MB hard disk space; System 7.0 or later; CD-ROM drive.

T1616LL/A **\$89.95**

Newton Developer Resources

Apple Computer, Inc.

Apple has created several resources to meet the varying needs of Newton developers. For those who want access to basic technical development resources, our World Wide Web site at <http://devworld.apple.com/dev/newtondev.shtml> provides documentation, sample code, and Q&As for downloading. For those developers who want to be in the know but who do not require technical support, the Newton Developer Mailing provides the latest technical and business information from Apple each month. Our Newton Developer Program combines the Developer Mailing with hardware purchase discounts (in selected countries), seeding opportunities, access to private online resources on the Internet, and one-to-one technical support.

Newton Developer Program

Features

- **Newton Developer Mailing** (see next column for description)
- **Development Hardware Purchasing Privileges** Newton Developer Program members in certain countries have the option to buy a designated number of Apple products at a discount to facilitate initial development.
- **Seeding Opportunities** All Newton program members are eligible for consideration to receive pre-release hardware units and software releases. (Apple will distribute such pre-release products based on Apple's testing objectives and available quantities.)
- **Online Resources** As a Newton program member, you will have access to several member-only resources on the Internet.
- **Compatibility Lab** Located in Cupertino, California, this by-appointment lab provides access to a range of Apple equipment for compatibility testing.
- **Newton Software Tool Updates** Updates to Newton tools are included on the Newton Developer CD. (Note: individual tool upgrades are available through regular distribution channels.)
- **Technical Support Program Membership Levels** Newton Developer Program members can select the program appropriate for their technical support needs. The program levels vary from the ability to purchase individual questions to receiving unlimited technical support. All questions are submitted and answered by e-mail.

For more details on the specific program levels available at your location, visit our website at <http://devworld.apple.com/dev/newtondev.shtml>. For list of international contacts, please see page 36.



Pricing

Program prices range from US \$250 to \$1,500.

Newton Developer Mailing

The Newton Developer Mailing delivers the latest essential technical and marketing information on the Newton platform. This monthly mailing consists of the following:

- **Newton Technology Journal** This bi-monthly publication provides the latest technical and business news from the Newton Systems Group, with comprehensive programming articles from Apple engineers and platform experts.
- **Newton Developer CD** The quarterly CD contains the latest sample code, Q&As, documentation, development tool updates, and platform information. (Note: most of the contents of the quarterly CD are made publicly available on the Internet after the CD is sent to subscribers.)
- **Apple Directions** This monthly newsletter has insights into Apple technologies, strategies, and priorities, as well as useful business information.
- **Newton platform news and data** You will also receive additional materials including white papers, platform guidelines, licensee news, market research, etc., which provide insights into the emerging Newton market.

Requirements

A computer running Mac OS or Windows with a CD-ROM drive is required for the Newton Developer CD.

Newton Developer Mailing (12 mailings)

R0633LL/A	\$149.00
Renewal Subscription	
R0634LL/A	\$149.00

NS BASIC Corporation

NS BASIC 3.5 with Visual Designer

NS BASIC is a full implementation of the BASIC programming language with extensions to take advantage of the rich Newton 2.0 environment. It allows rapid development of a wide variety of applications including forms.

Program NS BASIC directly on the Newton or use the keyboard and screen of your Mac or PC.

NS BASIC is a completely interactive environment. You can enter and run programs immediately.

Features

- Use the Visual Designer to layout and customize window objects
- Create your own Newton packages
- Set up Newton style interfaces using NS BASIC's toolbox of window objects
- Capture user input using pick lists, checkboxes, and handwriting
- Communicate using the serial and IR ports
- Create fully indexed files or access the built-in data
- Do graphing and scientific calculations
- Hook NS BASIC programs into other applications

URL <http://www.nsbasic.com/>

Note

NS BASIC 3.5 is supplied on Macintosh and DOS format floppy disks. It runs on all Newton 2.0 and 2.1 devices. Version 2.5 included for Newton 1.x devices.

T1667LL/C

\$99.00

Books and References

For books and references in the Newton category, see page 46.

Apple Computer, Inc.

Newton Toolkit 1.6



With Newton Toolkit, you can easily create software that runs on any Newton OS device from Apple or its licensees. The Newton Toolkit is a development environment that reduces the complexity and time involved in creating great software products.

See Results in Seconds The Newton Toolkit provides all the tools you need to create applications and content for Newton OS devices. Its rapid prototyping features, library of extensible components, and interactive development cycle let you see results in seconds. This capability helps you bring products to market faster.

Supports Newton 2.0 Newton Toolkit includes support for Newton 2.0. Newton Toolkit is also accelerated for Power Macintosh and includes debugging and diagnostic tools that run on your Newton OS device.

Dynamic Language Eases Development The language at the core of the Newton Toolkit is called NewtonScript. This object-oriented, dynamic language provides everything from automatic memory management and event handling to built-in user interface, data storage, and communications objects.

NewtonScript is tightly integrated with the Newton architecture and includes features that let you develop applications interactively, without going through the traditional edit, compile, and link cycles. You can make changes to your code and see the results right away.

Compiler Enables Faster Applications Newton Toolkit features a NewtonScript compiler and profiler that enable you to create much faster Newton applications. Using these tools, you can choose particular routines in your application to compile down to native ARM machine language. This gives you the control you need to achieve the highest possible performance for your application.

Publish Electronic Books with Book Maker Newton Book Maker, included with Newton Toolkit, is a tool for publishers that facilitates the creation of electronic books, travel guides, reference materials, and corporate documentation for Newton OS devices. It automatically creates sophisticated, customizable, and easy-to-navigate applications from electronic documents (such as word processing documents) containing both graphics and text. Newton programmers can use Newton Toolkit objects and the NewtonScript language to fully extend and customize Book Maker applications.

Licensing Note

Call Apple Software Licensing at 1-512-919-2645 for licensing details.



Requirements

Macintosh or Mac OS-compatible computer with a 68030 or greater processor (a Power Macintosh is highly recommended); 8 MB RAM (16 MB recommended for Power Macintosh); 10 MB hard disk space; System 7.0 or later; CD-ROM drive.

Newton Toolkit 1.6

H0107Z/D **\$299.00**

Newton Toolkit Update 1.6

H0167Z/C **\$49.00**

(Includes updates to both Newton Toolkit 1.6 and Newton Book Maker 1.1; only available to owners of earlier versions of Newton Toolkit)

Newton Programmer's Guide for Newton 2.0

The Newton Programmer's Guide consists of three volumes: two volumes covering the Newton System Software, and one volume covering Newton Communications.

The two-volume set, *Newton Programmer's Guide: System Software*, is the definitive guide and reference for Newton programming. This set of volumes explains how to write Newton programs and describes the system software routines that you can use to do so. This guide is for anyone who wants to write NewtonScript programs for the Newton family of products.

The *Newton Programmer's Guide: Communications*, describes the Newton communications system software for version 2.0. This guide is for anyone who wants to write NewtonScript programs for the Newton family of products, and specifically covers the communication interfaces in Newton system software.

An electronic version of this guide is included in the Newton Toolkit.

H0194Z/A **\$149.00**

Newton 2.0 User Interface Guidelines

Addison-Wesley Publishing Company, Inc.
Apple Computer, Inc. 1996

Newton User Interface Guidelines is an essential book for anyone developing products for Newton devices. It provides authoritative information that designers, engineers, and human interface professionals need to design and create software that fits

the Newton model. The book illustrates many examples of good and bad design, and explains why one is better than another.

T1986Z/A **\$24.75**

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- Newton Toolkit 1.6
- Newton Programmer's Guide for Newton 2.0
- Newton 2.0 User Interface Guidelines

B2746Z/A

only \$349.00

**For training with Newton
programming, see the Developer
University class listing for
"Newton Essentials 2.0" on page 39.**

Macintosh Developer Resources

Apple Computer, Inc.

Apple supports developers by providing timely access to technical information and marketing opportunities. Much of this information is available on the World Wide Web. We also deliver it to you on CD and in print through the Apple Developer mailings. Our highest level support offering, the Macintosh Developer Program, bundles the Apple Developer Mailing with one-to-one technical support and other premium services.



Mac™ OS

Macintosh Developer Program

Features

- **Apple Developer Mailing** The Apple Developer Mailing contains the latest Apple strategies, system software, technical news, and development resources. (See next page for details.)
- **Hardware and Purchasing Privileges** Macintosh Developer Program members have the option to buy a designated number of Apple products at a discount to facilitate development. (Option not available in all countries.)
- **Seeding Opportunities** All Macintosh program members will receive pre-release versions of key Mac OS technologies.
- **Third-Party Compatibility Lab** Located in Cupertino, California, this by-appointment lab provides access to a range of Apple equipment for compatibility testing.
- **Access to Porting Lab** Also located in Cupertino, California, our Developer Technical Support engineers can assist you in porting your application to the Macintosh platform.
- **Technical Support** Macintosh Developer Program members can select the level of support appropriate for their technical needs. The program levels vary from the ability to purchase individual questions to receiving unlimited technical support. All questions are submitted and answered by e-mail.

Pricing

Program prices range from US \$250 to \$1,500.

How to Join

For more details on the specific program levels available in the U.S. or Canada, visit our website at <http://www.devworld.apple.com>. Or you can contact Developer Support in the following areas:

Asia

Phone: (852) 2506-8888
E-mail: ASIA.DEVSVCS@applelink.apple.com

Australia

Phone: 61-2-452-8000
E-mail: devsupport@apple.com.au

Belgium, Luxembourg

Phone: 32-2-4744290
E-mail: DEV.ADMIN@applelink.apple.com

Brazil

Phone: 5511-886-8000
E-mail: ALAC.DEVPROG@applelink.apple.com

France

Phone: 05 90 72 26
E-mail: DEV.ADMIN@applelink.apple.com

Germany, Austria, Switzerland

Phone: (49) 89 99640 534 or (41) 1-877-9119
E-mail: DEV.ADMIN@applelink.apple.com

Italy

Phone: 39-2-273 26 1
E-mail: ITA.3RDPARTY@applelink.apple.com

Japan

Phone: 81-3-5717-7520
E-mail: JPN.DEVSPT@applelink.apple.com

Latin America

Phone: 1-305-569-2759
E-mail: ALAC.DEVPROG@applelink.apple.com

The Netherlands

Phone: 31 30.6593890
E-mail: DEV.ADMIN@applelink.apple.com

Nordic Region

Phone: 46-8-703 30 99
E-mail: DEV.ADMIN@applelink.apple.com

Spain

Phone: 34-1-663 17 80
E-mail: SPA.TPS@applelink.apple.com

United Kingdom, Ireland

Phone: 0800 50 50 94 or 44 131 458 6736
E-mail: DEV.ADMIN@applelink.apple.com

United States, Canada

Phone: 1-408-974-4897 or 800-633-2152
E-mail: devsupport@apple.com

If you are located in Africa, Central Europe, Eastern Europe, the Mediterranean, or the Middle East, please contact your local Apple representative.

Marketing Opportunities

Our support of your success doesn't stop with the development process. Because our customers and your customers are one and the same, we want to help raise awareness of third-party solutions. Some of the marketing resources available are:

- Market Profiles (size and trends)
 - Customer profiles
 - Channel trends
 - Mac OS Software and Hardware Guide Inclusion
 - Licensing the Mac OS logo
 - Public Relations Programs
 - Participating in Apple Market Seminars
 - Lists of Apple Events and Tradeshows
 - Bundling Contacts and Information
 - Direct Mail Programs
 - Getting product to Apple field and channel
 - Market specific comarketing opportunities
- Please see the *Marketing Your Products* webpage (<http://www.devworld.apple.com>) for the latest opportunities.

ces

Apple Developer Mailing

If you want the latest technical and business information from Apple, this subscription is for you. In each mailing you'll receive a copy of *Apple Directions* and an edition of the Developer CD Series.

Apple Directions

Apple's developer business report offers insights into Apple technologies, strategies, and priorities, as well as business information useful for developing and marketing products.

The Developer CD Series

This comprehensive information resource is composed of a series of editions, distributed in quarterly cycles. Each quarter, developers will receive the System Software and Mac OS SDK editions, the Tool Chest edition, and the Reference Library edition.

System Software Contains Macintosh system software localized in 36 languages, providing you with the ability to develop and test localized versions of your software and to ensure compatibility with a wide range of Macintosh models and OS versions. You'll also receive pre-release versions of new U.S. system software.

Mac OS SDK Provides convenient access to the most current Macintosh operating system software development kits published by Apple.

Tool Chest Offers an assortment of development tool utilities, platform and language information, and sample code.

Reference Library Contains a complete set of technical documentation including the *Inside Macintosh* series, Macintosh Technical Notes, *develop* magazine, *The Macintosh Programmer's Toolbox Assistant*, and *Macintosh Human Interface Guidelines*—all in electronic format.



Special User Note

A Macintosh computer with a CD-ROM drive is required for the Developer CD Series.

Developers interested in Newton Platform technologies will find a dedicated Newton Monthly Mailing on page 34.

Multimedia developers can read about the Apple Media Program on page 7.

Apple Developer Mailing (One year subscription)

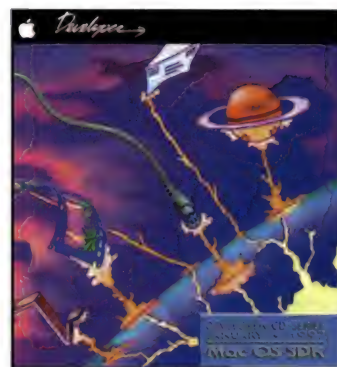
C0197LL/B **\$149.00**

One-Year Renewal Subscription

R0161LL/A

\$149.00

 This product may contain Class 1b beta release products and Class 2 restricted products. Beta releases of products are not fully tested and documented, but are expected to be completed in the future. Class 2 products are not tested, and documentation may still be in preliminary draft form.



SDKs Included for the Following System Extensions

AOCE	Communications Toolbox	MacX25
Apple Game Sprockets	Control Strip	Network Software Installer
Apple Guide	Designing PCI Cards & Drivers	Open Transport
Apple Remote Access API	Drag and Drop	QuickDraw 3D
Apple Remote Access Modem	File System Manager	QuickDraw GX
Apple Shared Library Manager	Installer	QuickTime
AppleScript	Macintosh Drag & Drop	ScriptX
AppleSearch	Macintosh Easy Open	Sound Manager
AppleShare API	MacODBC	Speech Recognition Manager
AppleTalk Wide Area	MacSNMP	Speech Synthesis Manager
ColorSync	MacTCP	Telephone Manager
		Thread Manager

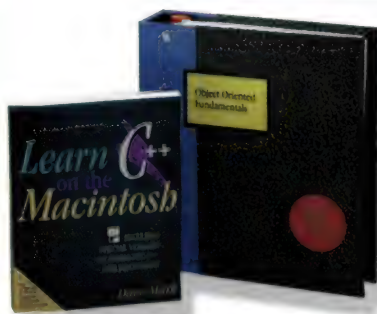




Developer University

Self-Paced Training

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Object-Oriented Fundamentals 1.1

Learn what object-oriented programming is all about. If you are a C programmer who wants to move up to C++ this is the self-paced training course for you. DU's multimedia Object-Oriented Fundamentals course enables you to easily make the paradigm shift from procedural to object-oriented design. It will introduce you to the entire object skill set, from general concepts

through analysis and design. This course includes a "lite" version of Metrowerks CodeWarrior integrated development environment for use in the labs. Symantec's C++ integrated development environment will work with the labs as well but is not included. This course also includes a copy of the book *Learn C++ on the Macintosh* by Dave Mark.

Training Format: Interactive multimedia with labs.

Requirements: Macintosh or Mac-OS compatible computer with a 68020 or greater processor; 12 MB RAM; 20 MB disk space; System 7.5; CD-ROM drive.

Prerequisites: You must be able to program a simple application in C on any platform.

R0560LL/B

\$245.00

Apple Events/AppleScript Programming Tutorial

Learn how to make your application scriptable and recordable by using Apple Events Object Model. This course will cover the Object Support Library, the Apple Event registry, and application architecture. The labs require Think C 7.0 or later.

Training Format: Tutorial with labs.

Requirements: Macintosh or Mac-OS compatible computer with a 68020 processor or greater; 4 MB RAM; 10 MB hard disk space; System 7 or later; CD-ROM drive.

Prerequisites: Before taking this class, you should know the C programming language and have written at least one Macintosh application.

R0224LL/B

\$95.00

NEW! Virtual Tutor for QuickTime VR

The Virtual Tutor for QuickTime VR is a self-paced, hands-on course, which provides a comprehensive environment for learning the steps of the QTVR development process. The student can cover all of the topics or choose areas to focus on. Topics covered include: QTVR capabilities and key concepts, panoramic movies, object movies, QTVR Scene movies and authoring with QTVR. If the student completes the entire course, he/she will create a complete, authored multimedia project similar to the demonstration title that comes on the enclosed CD-ROM. There are approximately 3-4 days of training.

Training Format: Tutorial with labs.

Requirements: 40 MB RAM minimum, 64 MB preferred; Macintosh or Mac OS compatible computer with a 33 MHz 68040 processor or greater; System 7.1 or later; CD-ROM drive; 17" color monitor.

R0717Z/A

\$79.95

Multimedia Authoring with Apple Media Tool

Apple Media Tool offers new multimedia users a way to get started creating interactive multimedia with minimal learning time. This self-paced tutorial will make Apple Media Tool (AMT) even easier to understand and to use. Using this tutorial, you will create a realistic multimedia project using exciting techniques such as QuickTime movies, animation and more. A demo version of AMT is included and can be used for the exercises. Purchasers of this tutorial receive a \$50 coupon for their purchase of Apple Media Tool.

Training Format: Tutorial with labs.

Requirements: 8 MB RAM; Macintosh System 7.1 or later; color monitor; CD-ROM drive; 40 MB hard disk space.

R0712Z/A

\$49.95

System 7.5 Technologies

This self-paced course is designed to allow software developers to write code that extends the functionality of an application for System 7.5. It contains comprehensive materials for drag-and-drop, threads, standard mail package, and QuickDraw GX printing. Students should be familiar with the basics of developing an application on the Macintosh. CodeWarrior Lite is included on the CD with the lab exercises.

Training Format: Tutorial with labs.

Requirements: Macintosh or Mac-OS compatible computer with a 68020 processor or greater (PowerPC preferred); 8 MB RAM; 25 MB hard disk space; System 7.5 or later; CD-ROM drive.



Note: The lab assignments use Metrowerks CodeWarrior 8. The labs can also be done in another development environment, such as Symantec C++ or Macintosh Programmer's Workshop, but you will have to "translate" some of the instructions for operations that are environment-dependent.

R0695Z/A

\$49.95

Apple Guide Integration

This self-paced overview teaches you when and how to add Apple Guide help to your program. Apple Guide is a powerful help system that can guide the user through a task. This tutorial will lead you through the steps necessary to integrate Apple Guide into your application. CodeWarrior Lite is included on the CD with the lab exercises.

Training Format: Overview with labs.

Requirements: Macintosh or Mac-OS compatible computer with 68020 processor or greater, PowerPC preferred; 8 MB RAM; 25 MB hard disk; System 7.5 or later; CD-ROM drive.

R0696Z/A

\$49.95



Online Topics

We've got several exciting new topics on the Web. Check out *Game Development with Sprockets* to learn how to use the new Apple's Sprockets API to develop great games for the booming game market.

What's on the Web?

- **System 7.5 Technologies**
- **Apple Guide Integration**
- **Get Started with Cyberdog Programming**
- **Introduction to Component Software**
- **Multimedia Authoring with Apple Media Tool**
- **Game Development with Sprockets**
- **Virtual Tutor for QuickTime VR**

How do you find our Web topics?

<http://www.devworld.apple.com/dev/du.shtml>



Classroom Training

DU classroom courses bring you training in the latest Apple technologies. Classes are offered on-site in Cupertino, CA, and at selected extension sites. For complete descriptions, prerequisites, target audience information, and registration, **contact the DU Registrar at 1-408-974-4897**, or check out our webpage at: <http://www.devworld.apple.com/dev/du.shtml>.

Programming With OpenDoc Developer Framework

Five Days

\$1,500

Jan. 27-31, March 3-7

Learn how to create parts using the OpenDoc Development Framework, Apple's cross-platform framework for OpenDoc.

Macintosh Debugging Strategies & Techniques

Four days

\$800

Feb. 10-13

Gain experience debugging using source-level and machine-level debuggers. This is a class and debugging lab combined.

Multimedia Development with QuickTime VR

Four days

\$1,200

Jan. 20-23, Feb. 17-20

Learn to create the next generation of multimedia applications using QuickTime VR, Apple's award winning non-linear panoramic movie format.

Newton Essentials 2.0

Five days

\$1,000

Jan. 27-31, Ann Arbor, Michigan

Call (313) 439-3828 to register.

Feb. 24-28, Palm Springs, California

Call (909) 793-5995 to register.

March 17-21, Ann Arbor, Michigan

Call (313) 439-3828 to register.

Learn about Newton's hardware and software architecture, NewtonScript, and Newton Toolkit.

QuickStart Mac OS Programming

Five days

\$1,500

Jan. 13-17, Feb. 24-28, March 17-20

Quickly learn how to get started programming for the Mac OS. If you are a C programmer from any platform and not afraid to get your hands dirty, then this intensive five day class is for you.

Scripting with AppleScript

Two days

\$400

Feb. 10-12

Learn how to write your own scripts to customize activities such as mail merge, communications, mail handling, data exchange between applications, and others. Learn how to script on the Internet.

A survey of developers showed that DU courses reduced their learning cycle, saved time and money, and shortened time to market by as much as seven weeks!

Don't ignore these benefits—register for the course of your choice now! Call 1-408-974-4897

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AND VIRTUAL TUTOR
FOR QUICKTIME VR
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B3003Z/A

Inside Macintosh Books Now 50% Off!

Addison-Wesley Publishing Company

Operating System

Inside Macintosh: Files

Details how your application can handle the commands typically found in a file menu.

R0356LL/A **REDUCED PRICE!** **\$14.95 \$29.95**

Inside Macintosh: Memory

Provides detailed strategies for allocating and releasing memory, avoiding low-memory situations, and preventing the use of invalid handles and pointers.

R0357LL/A **REDUCED PRICE!** **\$12.45 \$24.95**

Inside Macintosh: Operating System Utilities

Learn how to manage various low-level aspects of the Macintosh Operating System and how to handle issues that are not specifically related to files, memory, or process execution.

T1553LL/A **REDUCED PRICE!** **\$14.45 \$28.95**

Inside Macintosh: Processes

A detailed look at the parts of the Macintosh operating system that allow you to control the execution of processes and interrupt tasks.

R0355LL/A **REDUCED PRICE!** **\$11.45 \$22.95**

QuickDraw GX

Inside Macintosh: QuickDraw GX Graphics

Shows you how to create and manipulate the fundamental geometric shapes of QuickDraw GX to generate a vast range of graphics entities.

T1113LL/A **REDUCED PRICE!** **\$15.95 \$31.95**

Inside Macintosh: QuickDraw GX Objects

A must read before tackling any other books in the QuickDraw GX suite—starts with an overall introduction to QuickDraw GX, and then describes how you can create and draw graphical and text elements using fundamental objects.

T1430LL/A **REDUCED PRICE!** **\$15.95 \$31.95**

Inside Macintosh: QuickDraw GX Printing Extensions and Drivers

Discover how you can quickly build printer drivers for existing and new output devices, resulting in Macintosh support for an even greater range of output devices.

T1114LL/A **REDUCED PRICE!** **\$14.95 \$29.95**

Inside Macintosh: QuickDraw GX Environment and Utilities

A complete reference to the essential supporting components of QuickDraw GX that describes important features of the QuickDraw GX programming environment.

T1555LL/A **REDUCED PRICE!** **\$15.95 \$31.95**

Inside Macintosh: QuickDraw GX Typography

A comprehensive overview of typographic concepts complete with numerous examples and reference material for the data structures and functions you can use to create text with QuickDraw GX.

T1550LL/A **REDUCED PRICE!** **\$14.95 \$29.95**

Inside Macintosh: QuickDraw GX Printing

A detailed look at how to implement printing in the QuickDraw GX environment as well as how to support printing-related dialog boxes and events, implement a print loop, customize printing features, and more.

T1551LL/A **REDUCED PRICE!** **\$14.45 \$28.95**

Inside Macintosh: QuickDraw GX Programmer's Overview

Gets you started programming with QuickDraw GX by revealing the universe of QuickDraw GX object architecture, graphics, typography, printing features, runtime, and debugging environments.

T1554LL/A **REDUCED PRICE!** **\$12.45 \$24.95**



SEE PAGE 33
INSIDE MACINTOSH BOOKS
AVAILABLE
ON CD!

Multimedia

Inside Macintosh: QuickTime

An essential reference that will get you started integrating video, animation, and sounds into your applications.

T0563LL/A **REDUCED PRICE!** **\$14.95 \$29.95**

Inside Macintosh: QuickTime Components

Read this if you're developing an application that uses QuickTime components, or if you're developing a component that will be used by QuickTime applications.

T0593LL/A **REDUCED PRICE!** **\$15.95 \$31.95**

Inside Macintosh: Sound

Explains the parts of the Macintosh system software that let you manage sounds—in particular, the Sound Manager, the Sound Input Manager, and the Speech Manager.

T1533LL/A **REDUCED PRICE!** **\$14.95 \$29.95**

Orders are shipped within 24 hours. **Order Monday through Friday, 7am-5pm, PST.** U.S.: 1-800-282-2732

GREAT PRICES

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Other Inside Macintosh Books

Inside Macintosh: Devices

An essential reference for writing a Macintosh device driver or desk accessory.

T1552LL/A **REDUCED PRICE!** **\$14.95 \$29.95**

Inside Macintosh: Imaging with QuickDraw

Get conversant with QuickDraw, the part of the Macintosh Toolbox that performs graphics operations, and the Printing Manager, which allows applications to print the images created with QuickDraw.

T1109LL/A **REDUCED PRICE!** **\$16.45 \$32.95**

Inside Macintosh: Interapplication Communication

Learn how to make your application work with other applications to give users even greater power and flexibility.

T0594LL/A **REDUCED PRICE!** **\$18.45 \$36.95**

Inside Macintosh: Networking

Covers key concepts of networking the Macintosh with other computers and describes in detail the components and organization of AppleTalk networking protocols.

T1110LL/A **REDUCED PRICE!** **\$14.95 \$29.95**

Inside Macintosh: Text

Learn how applications perform text handling, from simple character display to multilanguage text processing.

T0564LL/A **REDUCED PRICE!** **\$19.95 \$39.95**

Inside Macintosh: X-Ref

Provides a quick and easy way to find the exact information you need in the *Inside Macintosh* series, the essential resource for Macintosh programmers, engineers, and designers.

T1659LL/A **REDUCED PRICE!** **\$9.95 \$19.95**

Visual Environment

Inside Macintosh: Macintosh Toolbox Essentials

The essentials of how to implement user interface components in Macintosh applications, such as menus, windows, scroll bars, and dialog boxes.

R0360LL/A **REDUCED PRICE!** **\$17.45 \$34.95**

Inside Macintosh: More Macintosh Toolbox

The ideal companion to *Inside Macintosh: Macintosh Toolbox Essentials*.

T0627LL/A **REDUCED PRICE!** **\$17.45 \$34.95**

Inside Macintosh: Overview

Focuses on Macintosh "look and feel," human interface principles, the desktop metaphor, the event loop, resources, collaborative computing, and programming languages and tools.

R0359LL/A **REDUCED PRICE!** **\$11.45 \$22.95**

AOCE

Inside Macintosh: AOCE Application Interfaces

Learn about the application interfaces to the Apple Open Collaboration Environment and how to add electronic mail capabilities to applications, write messaging applications, store and retrieve information from PowerShare and other AOCE catalogs.

T1535LL/A **REDUCED PRICE!** **\$22.45 \$44.95**

Inside Macintosh: AOCE Service Access Modules

The book to read if you want to extend the capabilities of PowerTalk—learn how to add catalog and messaging services to those available through PowerTalk system software and PowerShare collaboration servers.

T1534LL/A **REDUCED PRICE!** **\$14.95 \$29.95**

PowerPC

Inside Macintosh: PowerPC Numerics

Covers the floating-point numerics environment provided with the first release of the PowerPC processor and describes the IEEE standard 754 for binary floating-point arithmetic and how PowerPC numerics comply with it.

T1111LL/A **REDUCED PRICE!** **\$14.45 \$28.95**

Inside Macintosh: PowerPC System Software

Learn about the new process-execution environment and system software services provided with the first release of Power Macintosh computers.

T1112LL/A **REDUCED PRICE!** **\$12.45 \$24.95**

Apple Computer, Inc.

develop, The Apple Technical Journal

develop, Apple's award-winning quarterly technical journal, contains full-length articles, columns, and Q&As that will help reduce your development time and enhance your programming savvy.

Each issue comes with the latest *develop* Bookmark CD. This CD contains a subset of the materials on the Developer CD Series, which is part of the Apple Developer Mailing available through the *Apple Developer Catalog*. Included on the CD are the current issue of *develop* and all back issues, along with the code that the articles describe. The CD also contains Technotes, sample code, and other documentation and tools.

Special User Note: A Macintosh or Mac OS-compatible computer with a CD-ROM drive is required for the Bookmark CD.

develop (4 issues and 4 CDs)

M0929LL/B **\$27.00**

develop (renewal; 4 issues and 4 CDs)

R0658LL/A **\$27.00**

Individual issues of *develop* are also available.

Recent issues include:

Issue 28 Coding Your Object Model for Advanced Scriptability; New QuickDraw 3D Geometries; QuickDraw GX Line Layout: Bending the Rules; MacApp Debugging; Chiropractic for Misaligned Data
030-861328 **\$10.00**

Issue 27 Speech Recognition Manager; OpenDoc Part Kinds; Apple Guide 2.1 With OpenDoc; Mac OS 8 Assistants; Game Controls for QuickDraw 3D
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Addison-Wesley Publishing Company

Essential OpenDoc

Jesse Feiler and Anthony Meadow



Developed by Apple, IBM, and Novell, OpenDoc enables the development of a new class of applications for Windows, Macintosh, OS/2, UNIX, and other personal computer platforms. It is supported by CI Labs, a unique industry-wide consortium of hardware and software developers. *Essential OpenDoc* introduces basic OpenDoc concepts and explains the implications of this exciting software architecture for developers, consultants, system integrators, and solution providers.

This book provides an in-depth look at the technical issues of OpenDoc and explores the three core technologies that support its functionality, including The System Object Model (SOM), OpenDoc's storage mechanism, and The Open Scripting Architecture.

Essential OpenDoc also examines Cyberdog, a set of OpenDoc part editors that provides access to Internet services and offers a compelling example of the power of OpenDoc development.

URL <http://www.aw.com/>

T1927Z/A **\$24.95**

Addison-Wesley Publishing Company

OpenDoc Programmer's Guide

Apple Computer, Inc.



The *OpenDoc Programmer's Guide* shows how to develop for OpenDoc on the Mac OS platform, using three different sections.

Section 1 explains what parts and part editors are, how embedding works, and how you should approach your development project.

Section 2 describes OpenDoc programming in detail. It includes chapters on embedding, drawing, menus, windows, storage, data transfer, scripting, and extending OpenDoc.

Section 3 provides guidelines for presenting the correct interface to your users.

The *OpenDoc Programmer's Guide* also includes an extensive glossary of OpenDoc terms and appendixes with checklists to speed your programming efforts.

The included CD-ROM contains the OpenDoc Class Reference, the complete reference to the OpenDoc programming interface, and extensive sample code and programming "recipes" from the OpenDoc development team.

T1861Z/A **\$44.95**



Addison-Wesley Publishing Company

OpenDoc Cookbook

Apple Computer, Inc.



This companion book to the *OpenDoc Programmer's Guide* shows how to create OpenDoc software components, called part editors, for the Mac OS platform. The *OpenDoc Cookbook* contains source code for a complete but basic part editor implemented by the OpenDoc engineering team at Apple Computer to illustrate the correct way to code to the OpenDoc programming interface. The source code is accompanied by step-by-step explanations.

Features

- Instructions for setting up the MPW development environment to write OpenDoc software
- Annotated listings explaining the methods that implement the SamplePart part editor
- Descriptions of other sample part editors created by the OpenDoc engineering team to illustrate more advanced features
- An introduction to the System Object Model (SOM) technology underlying OpenDoc

Note

Source code files for the SamplePart part editor and other example part editors are included on the CD-ROM that comes with the *OpenDoc Programmer's Guide*.

T1926Z/A **\$24.95**

Orders are shipped within 24 hours. **Order Monday through Friday, 7am-5pm, PST. U.S.: 1-800-282-2732**

AP PROFESSIONAL

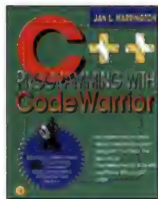
C++ Programming with CodeWarrior: Beginning OOP for the Macintosh and Power Macintosh

Jan L. Harrington

1995

400 pages with CD-ROM

This book teaches programming novices object-oriented programming techniques for the Macintosh and the Power Macintosh using C++ as the example language and Metrowerks CodeWarrior as the example compiler.



Features

- Designed for programming novices who want to learn object-oriented programming from the ground up

- Gives examples specific to Metrowerks CodeWarrior
- Includes introduction to key concepts of object-oriented programming such as classes and inheritance
- Comes with working version of CodeWarrior C++ compiler to execute sample programs and complete programming challenges presented in the book

Note

CD-ROM also includes source code for easy implementation

T1924Z/A

\$34.95

WebMaster Macintosh

Bob LeVitus and Jeff Evans



Learn how to turn your Macintosh into a World Wide Web server and create professional quality webpages. This new book is packaged with a CD-ROM containing all the software necessary to make this happen.

T1777Z/A

\$29.95

Programming Primer for the Macintosh, Volume 1

John May and Judy Whittle

1994

352 pages with disk

Provides an introduction to Macintosh programming, using C++ as the example language. This book uses realistic, easy-to-follow programming examples designed to work with either Symantec C++ or Metrowerks



CodeWarrior. Features in-depth coverage of Macintosh C++ programming style, memory management, object-oriented programming techniques, debugging and Finder resources, and Macintosh Toolbox and Toolbox managers like the Alert Manager, the Dialog Manager, and QuickDraw.

Features

- Provides a stepwise introduction to new topics, numerous practical examples, and a creative

balance of text, source code, and graphics

- Includes floppy disk with source code for programming examples that will compile with both Symantec C++ and Metrowerks CodeWarrior, plus public domain utilities to use with each compiler

T1925Z/A

\$37.95

Addison-Wesley Publishing Company

Planning and Managing Web Sites on the Macintosh: The Complete Guide to WebSTAR and MacHTTP

Jon Wiederspan and Chuck Shotton

1995

384 pages with CD-ROM



This book is a definitive guide to setting up and running a website on the Macintosh, written by two acknowledged experts in the field. It skillfully teaches you everything you need to know about using WebSTAR, the best known

MacHTTP server software, and its shareware predecessor MacHTTP, as well as programming guides for writing CGI applications for your server. A special version of WebSTAR, plus tons of useful software are on the CD-ROM.

Jon Wiederspan is the Director of Technical Services at ComVista Internet Solutions, Inc.

Chuck Shotton is the author of MacHTTP and WebSTAR. He is a senior vice president of engineering at StarNine where he oversees development of WebSTAR and other Internet software.

T1831Z/A

\$39.95

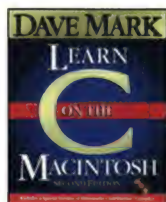
Addison-Wesley Publishing Company

Learn C on the Macintosh, Second Edition

Dave Mark

1995

496 pages with CD-ROM



Anyone who can use a Macintosh can learn C, and all the information needed to do it is right here! *Learn C on the Macintosh, Second Edition*, has been revised and updated to include fresh code, enhanced lessons, and a CD-ROM with sample code and

CodeWarrior Lite, a special version of the development environment from Metrowerks.

Dave Mark is one of the world's leading teachers and best-known authorities on Macintosh programming. He is a columnist for *MacTech* magazine, and his company, SpiderWorks, specializes in custom Macintosh development. He is the author of several bestselling Macintosh programming books including *Learn C++ on the Macintosh* and the *Macintosh Programming Primer* series.

T1886Z/A

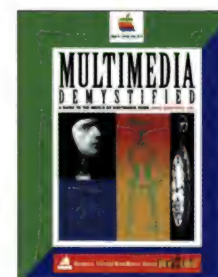
\$34.95

Random House Electronic Publishing

Multimedia Demystified, A Guide to the World of Multimedia from Apple Computer, Inc.

Apple Computer, Inc.

1994



A comprehensive look at the markets, media, and organizations that make up the multimedia industry. Much of the material is based on interviews with multimedia developers who have successfully moved from an initial spark to a completed product.

T1115LL/B

\$29.00

Note

Included with subscription to Apple Multimedia Information Mailing. See page 7 for more information.

Multimedia

Desktop Video Studio

Random House Electronic Publishing
Andrew Soderberg and Tom Hudson, 1995

Book and CD-ROM provide essential background information on creation and processing of digital video with a primer section, tips and techniques, and case studies.

T1736Z/A \$45.00

How to Digitize Video

John Wiley & Sons, Inc.

Book and CD-ROM guide you through hardware and software selection, video capture and conversion, storage, editing, and playback.

T1662LL/A \$39.95

Multimedia Demystified, A Guide to the World of Multimedia from Apple Computer, Inc.

Random House Electronic Publishing
Apple Computer, Inc., 1995

See ad on page 43. This book is included with subscription to Apple Multimedia Information Mailing on page 7.

T1115LL/B \$29.00

Sex, Lies, and Video Games: How to Write a Macintosh Arcade Game

Addison-Wesley Publishing Company
Bill Hensler

Exposes you to the techniques of producing games on the Macintosh—games with captivating animation and sounds. No previous game programming experience necessary, just the ability to write a program with standard interface elements.

T1835Z/A \$34.95

3-D Starter Kit for Macintosh

Hayden Books
Sean Wagstaff, 1994; 486 pages

The complete reference to 3D graphics on the Macintosh—ideal for beginning to intermediate illustrators, graphic designers, multimedia developers, and animators.

T1892Z/A \$40.00

Tricks of the Mac Game Programming Gurus

Hayden Books
Jamie McCormack, 1995, 900 pages

Comprehensive Mac game programming sourcebook to turn to for information.

T1890Z/A \$50.00

Languages and Environments

Algorithms, Second Edition

Addison-Wesley Publishing Company
Robert Sedgewick, 1988

A survey of important algorithms and data structures, including arithmetic and numerical methods.

T0175LL/B \$44.25

C++ Programming Language, The Second Edition

Addison-Wesley Publishing Company
Bjarne Stroustrup, 1991, AT&T Bell Laboratories

This definitive guide, written by the designer of C++, covers all the features in the most recent release.

T0191LL/B \$34.50

C++ Programming with CodeWarrior: Beginning OOP for the Macintosh and Power Macintosh

AP Professional
Jan L. Harrington, 1995; 400 pages

Teaches programming novices object-oriented programming techniques. See ad on page 43.

T1924Z/A \$34.95

Essential OpenDoc

Addison-Wesley Publishing Company
Jesse Feiler and Anthony Meadow

Introduces basic OpenDoc concepts and explains the implications of this exciting software architecture for developers. See ad on page 42.

T1927Z/A \$24.95

Foundations of Mac Programming

IDG Books
Dan Parks Sydow, 1995; 708 pages

Covers the basics, from resources to QuickTime movies. Includes CD-ROM with code for Symantec C++ 8.0 and Metrowerks CodeWarrior.

T1899Z/A \$39.95

How to Write Macintosh Software, Third Edition

Addison-Wesley Publishing Company
Scott Knaster and Keith Rollin, 1992

An excellent source for key Macintosh programming issues like memory management and debugging techniques.

T0150LL/B \$28.95

Inside CodeWarrior 11

Metrowerks Inc.

Provides in-depth information about the CodeWarrior development environment.

T1648LL/D \$34.95

Inside PowerPlant for CodeWarrior 11

Metrowerks Inc.

Printed documentation for Metrowerks CodeWarrior 10 PowerPlant application framework.

T1902Z/B \$34.95

Learn C on the Macintosh, Second Edition

Addison-Wesley Publishing Company
Dave Mark, 1995

See ad on page 43.

T1886Z/A \$34.95

Learn C++ on the Macintosh

Addison-Wesley
Dave Mark, 1993

Self-paced book/disk package with comprehensive tutorial in programming fundamentals and C++ language basics.

T0823LL/A \$36.95

Mac OS 8 Revealed: A Technical Tour of the New Mac OS

Addison-Wesley
Tony Francis, 1996

This book explains the key features of Mac OS 8, including how it exploits preemptive multitasking to perform many operations concurrently and how the new memory protection model insulates the microkernel and other operating system services to provide system stability.

T1994Z/A \$34.95

Macintosh C Programming Primer, Volume I, Inside the Toolbox Using THINK C, 2nd Edition

Addison-Wesley Publishing Company
Dave Mark and Cartwright Reed, 1992

Covers event-driven programming, windows manipulation, menus, dialog boxes, file management, and more.

T0256LL/B \$26.95

Macintosh C Programming Primer, Volume II, Mastering the Toolbox Using THINK C, 2nd Edition

Addison-Wesley Publishing Company
Dave Mark, 1990

Covers advanced useage of Symantec's THINK C compiler by creating a series of applications focused on the Macintosh Toolbox.

T0402LL/A \$24.95

Macintosh Programming Secrets, Second Edition

Addison-Wesley Publishing Company
Scott Knaster, 1992

Dozens of hints, tips, and insights on how to take full advantage of tools available in Macintosh system software.

T0157LL/B \$29.95

Mastering the THINK Class Library

Addison-Wesley Publishing Company
Richard O. Parker, 496 pages

Provides a thorough examination of Symantec's extensive Class Library and the Visual Architect interface development tool. Includes complete description of TCL, explanations of all code generated by the Visual Architect, and tutorials to simplify Mac application development.

T1730Z/A \$29.95

Metrowerks CodeWarrior Programming

Henry Holt & Company
Dan Parks Sydow

The authorized guide to CodeWarrior, giving you complete coverage of the Gold edition of this exciting compiler. You'll be able to rapidly develop applications for the 68K and Power Macintosh computers with the techniques you learn from this book. Companion CD-ROM includes CodeWarrior Lite—a limited version of CodeWarrior.

T1735Z/A \$39.95

More Mac Programming Techniques

Henry Holt & Company
Dan Parks Sydow

Go beyond the fundamentals of Macintosh programming with this hands-on guide and tutorial. Expand on the basic foundation of programming to create powerful applications, learning solid techniques you can apply anywhere.

T1715Z/A \$34.95

OpenDoc Cookbook

Addison-Wesley Publishing Company

This companion book to the OpenDoc Programmer's Guide shows how to create OpenDoc software components. See ad on page 42.

T1926Z/A \$24.95

OpenDoc Programmer's Guide

Addison-Wesley Publishing Company, 1995
See ad on page 42.

T1861Z/A \$44.95

Optimizing PowerPC Code

Addison-Wesley Publishing Company
Gary Kacmarcik, 704 pages

To take full advantage of the speed and features of the PowerPC chip, you need to master assembly language techniques. Written by an expert, this book provides hard-core, cross-platform help at the assembly language level.

T1731Z/A \$39.95

Power Macintosh Programming Starter Kit

Hayden Books
Tom Thompson

This book and CD-ROM combo takes you on a tour of the entire Power Macintosh environment.

T1864Z/A \$39.95

Programming Primer for the Macintosh, Volume 1

AP PROFESSIONAL
John May and Judy Whittle, 1994, 352 pages

An introduction to Macintosh programming, using C++ as the example language. See ad on page 43.

T1925Z/A \$37.95

Programming QuickDraw

Addison-Wesley Publishing Company
David A. Surovell, Fred M. Hall, and Konstantin Othmer, 1993

Describes how to develop software using QuickDraw and the rest of the graphics managers in the Macintosh Toolbox. Illustrated and accompanied by functional source code examples.

T0603LL/A \$26.95

Programming Starter Kit for Macintosh

Hayden Books
Jim Trudeau, 1995, 600 pages

This all-in-one kit contains everything you need to get started with the world of Macintosh programming! Featuring valuable tools on CD-ROM, this book teaches the skills and techniques necessary for successful development. It includes a "lite" version of Metrowerks CodeWarrior for doing the lab exercises.

T1742Z/A \$45.00

Programming the PowerPC: Programming Native Applications for the New Power Macintosh

Henry Holt & Company
Dan Parks Sydow

Complete introduction to the world of RISC computing. Learn how to program effectively for the 68LC040 emulator.

T1867Z/A \$39.95

Symantec C++ Programming for the Macintosh

Prentice Hall Computer Publishing
Neil Rhodes and Julie McKeeban, 1992

Learn C++ programming for the Macintosh with this practical, hands-on guide and sample code disk.

T0606LL/A \$39.95

THINK Reference 2.0

Symantec Corporation

Indispensable reference with electronic versions of the six original Inside Macintosh volumes.

T0467LL/B \$89.00

Internet

Cyberdog Programmer's Kit

Addison-Wesley Publishing Company
1996, 416 pages

An overview of Cyberdog architecture and its relationship to OpenDoc. Also included are code examples and tutorial steps, as well as the complete Cyberdog software development kit on CD-ROM.

T2012Z/A \$34.95

How to Set Up and Maintain a World Wide Web Site: The Guide for Information Providers

Addison-Wesley Publishing Company
Lincoln D. Stein, 1995, 352 pages

Covers all the essentials of designing, configuring, maintaining, and expanding a website using the most popular software packages.

T1885Z/A \$29.00

Internet Starter Kit for Macintosh, Third Edition

Hayden Books
Adam C. Engst, 1995, 900 pages

Your ticket to the world of the Internet, this book provides all the information and software you need to get on the Net.

T1891Z/A \$35.00

Planning and Managing Web Sites on the Macintosh: The Complete Guide to WebSTAR and MacHTTP

Addison-Wesley Publishing Company
Jon Wiederspan and Chuck Shotton

See ad on page 43.

T1831Z/A \$39.95

Publishing on the World Wide Web for Macintosh

Hayden Books
Greg Holden, 1995, 450 pages

Reference tool for all people and businesses that want to learn about publishing on the World Wide Web.

T1889Z/A \$30.00

WebMaster Macintosh*AP PROFESSIONAL**Bob LeVitus and Jeff Evans*

See ad on page 43.

T1777Z/A \$29.95

Solutions**Apple Event Registry: Standard Suites***Apple Computer, Inc.*

R0130LL/A \$85.00

Apple Guide Complete*Addison-Wesley Publishing Company*

Everything you need to successfully produce guide files, including Guide Maker, is in this book and CD-ROM package.

T1650LL/A \$39.95

Applied Mac Scripting*Henry Holt & Company**Tom Trisko*

Learn to use AppleScript and Frontier scripting environments with this hands on tutorial. Presents an overall approach to designing and developing powerful scripts, with valuable new techniques for Macintosh automation.

T1713Z/A \$34.95

AppWare Programming Primer*Addison-Wesley Publishing Company**Eric Weidl; 352 pages*

Provides the ideal introduction to the AppWare programming environment. Included PC disk has pre-assembled applications that can be linked together without coding.

T1728Z/A \$34.95

Complete Handbook for HyperCard 2.2, The, Fourth Edition*Random House Electronic Publishing**Danny Goodman; 1993; 1,184 pages*

Shows how to build working applications using HyperCard (see page 23). Covers text, painting tools, extension commands (XCMDs), scripting in HyperTalk, and more. This is the biggest-selling Macintosh book.

T1090LL/A \$35.00

Danny Goodman's Apple Guide Starter Kit*Addison-Wesley Publishing Company**Danny Goodman and Jeremy Joan Hewes; 320 pages*

Make guides quickly and easily, without learning a scripting language, using advice and tips on how to design a good guide.

T1727Z/A \$34.95

Danny Goodman's AppleScript Handbook, Second Edition*Random House Electronic Publishing**Danny Goodman; 576 pages*

Shows how to integrate functions, automate processes in Finder and third-party applications, and more. Comes with hundreds of dollars of software on the included disk; this package is complete and requires no programming experience.

T1733Z/A \$40.00

HyperTalk 2.2: The Book, Second Edition*Random House Electronic Publishing**Danny Goodman, Dan Winkler, Scot Kamins, Jeanne Devoto, 1993*

The most complete, authoritative source on HyperTalk 2.2 programming and troubleshooting, covers each language element—including quirks and bugs.

T1089LL/A \$35.00

Real World Apple Guide*Henry Holt & Company**Jesse Feiler*

Learn how to develop assistance, use it effectively, incorporate it into applications, combine it with existing applications, and provide custom solutions. Book and CD package provides tutorials and examples to write and compile Apple Guide files.

T1714Z/A \$39.95

Newton**Programming for the Newton***AP Professional**Julie McKeehan and Neil Rhodes*

An indispensable tool for Newton programmers; learn how to develop software for the Newton, including key concepts of object-oriented programming to facilitate use of NewtonScript. Included disk has sample code for examples and a demonstration version of Newton Toolkit.

T1434LL/A \$29.95

Wireless for the Newton*AP Professional /Harcourt Brace**Julie McKeehan and Neil Rhodes*

Picks up where Programming for the Newton left off, with more detailed instruction on creating Newton software.

T1778Z/A \$34.95

Technical References**A Fragment of Your Imagination**

Practical help for creating code resources and code fragments for the Macintosh and Power Macintosh, with thorough explanations about how the Macintosh system functions as a whole.

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Advanced Color Imaging on the Mac OS

The official reference to the Color Picker, the ColorSync Manager, the Palette Manager, and the Color Manager. Includes conceptual information and code samples on CD-ROM, with step-by-step instructions for extending your color capabilities.

T1726Z/A \$36.95

Apple CD-ROM Handbook—A Guide to Planning, Creating, and Producing a CD-ROM*Addison-Wesley Publishing Company**Apple Computer, Inc., 1992*

Takes you step-by-step through the process of producing a CD-ROM, addressing planning, production, legal, and financial considerations.

R0422LL/A \$14.95

Apple Publications Style Guide*Apple Computer, Inc.*

Includes extensive alphabetical listing of rules, style, and usage for terms found in Apple manuals.

A7G0030/F \$30.00

AppleTalk Update-Based Routing Protocol (AURP) Technical Specifications*Apple Computer, Inc.*

Specifications that give detailed information about AURP and wide-area networking.

R0463LL/A \$25.00

Breaking Through, A Technical Guide for the Design and Development of CD-ROMs*Apple Computer, Inc., 1994*

Technical companion to the Apple CD-ROM Handbook that looks at the stages of CD-ROM production, including necessary hardware, software, and procedures. Included with subscription to Apple Multimedia Information Mailing (see page 7).

T1116LL/A \$14.95

Guide to Macintosh Software Localization*Addison-Wesley Publishing Company**Apple Computer, Inc., 1992*

Full of practical information that provides an overview of localization issues such as language, graphics, and documentation.

M1528LL/B \$24.95

Inside AppleTalk, Second Edition

Addison-Wesley Publishing Company
Apple Computer, Inc., 1989, 1990

Shows how to create applications that work with the AppleTalk Network System.

C0078LL/B \$34.95

Inside the Macintosh Communications Toolbox

T1747Z/A \$26.95

Localization for Japan

Apple Computer, Inc.

Descriptions of Japanese personal computer standards, online services, and business practices.

R0250LL/A \$20.00

Planning and Managing AppleTalk Networks

Addison-Wesley Publishing Company
Apple Computer, Inc., 1991

Comprehensive guide with illustrations detailing the planning, managing, and troubleshooting of AppleTalk Networks.

T0471LL/A \$18.95

QuickDraw GX Font Formats and the TrueType Font Format Specification

Apple Computer, Inc.

R0601LL/A \$50.00

3D Graphics Programming with QuickDraw 3D

T1724Z/A \$39.95

Hardware**Designing Cards and Drivers for the Macintosh Family, Third Edition**

Addison-Wesley Publishing Company
Apple Computer, Inc., 1992

M7075/C \$29.95

Designing PCI Cards and Drivers for Power Macintosh Computers

R0650LL/A \$35.00

Macintosh Technology in the Common Hardware Reference Platform

Morgan Kaufman Publishers
Apple Computer, Inc.

Explains many of the basic design principles that have contributed to Macintosh performance and ease of use.

T1894Z/A \$39.95

PCI System Architecture, Third Edition

Addison-Wesley Publishing Company
Mindshare, Inc., Tom Shanley and Don Anderson; 592 pages

Describes revision 2.1 of the Peripheral Component Interconnect (PCI) bus specification. Explores PCI's relationship to the rest of the system. Includes in-depth treatment of PCI to PCI bridges, the PCI BIOS, and the 66-MHz PCI bus.

T1716Z/A \$34.95

POWER and PowerPC: Principles, Architecture, Implementation

Morgan Kaufmann Publishers, Inc.
Shlomo Weiss and James E. Smith

An in-depth exploration of RISC technology through a significant family of high-performance computers: the POWER and PowerPC architectures and implementations. By comparing the PowerPC 601 and DEC Alpha 21064, a deeper understanding of the PowerPC approach to RISC is provided.

T1775Z/A \$59.95

PowerPC Architecture, The: A Specification for a New Family of RISC Processors

Morgan Kaufmann Publishers, Inc.
International Business Machines, Inc.

The official technical description of the PowerPC architecture and its hardware conventions. An essential reference for hardware and system software designers and applications programmers, and a must for anyone who needs to understand the levels of compatibility between different processors in the PowerPC family.

T1776Z/A \$59.95

PowerPC Macintosh Book, The

Addison-Wesley Publishing Company

Tells you everything you need to know about the new Power Macintosh line, including why the new PowerPC chip family is so important.

T1661LL/A \$19.95

PowerPC Microprocessor Common Hardware Reference Platform: A System Architecture

Morgan Kaufman Publishers
Apple Computer, Inc., International Business Machines Corporation, and Motorola, Inc.

Defines the architecture requirements and minimum system requirements for a common hardware reference platform. Provides essential information for anyone developing an operating system, hardware component, or hardware platform to run on these standard systems.

T1893Z/A \$39.95

PowerPC System Architecture

Addison-Wesley Publishing Company
Mindshare, Inc., Tom Shanley; 656 pages

Describes the hardware architecture of PowerPC systems, providing a clear, concise explanation of the PowerPC specification. Covers both 32- and 64-bit implementations.

T1723Z/A \$34.95

Miscellaneous**High-Tech Marketing Companion**

Addison-Wesley Publishing Company
Dee Kiamy

Shows how to solve critical marketing problems and maximize resources with advice culled from *Apple Directions*.

T1663LL/A \$22.95

How to Market with Computer User Groups

User Group Connection
Sam Decker

By following the guidelines in this book, you will reach hundreds of thousands of user group members, and the untold millions of people with whom they communicate. There is no better way to launch and maintain a word-of-mouth advertising campaign than by marketing with user groups.

T1895Z/A \$29.00

Inside Taligent Technology

Addison-Wesley Publishing Company
Sean Cotter with Mike Potel; 512 pages

Describes what Taligent's CommonPoint application system can do, why it's important, and where the people who created it believe it's going.

T1729Z/A \$29.95

1996 WWDC on CD-ROM

Canyon Interactive

Complete, verbatim transcripts from every session of the 1996 Apple Worldwide Developer's Conference, indexed with full-text and keyword search, are available on CD-ROM. Plus, audio and video highlights and updated speaker presentations from every session are also included.

T2014Z/A \$179.00

Developer Notes



Developer Notes Available in Electronic Form

Apple References, including Developer Notes, can now be obtained via the Internet:

ftp

[ftp://ftpdev.info.apple.com/Developer Services/Technical Documentation/Developer Notes/](ftp://ftpdev.info.apple.com/Developer%20Services/Technical%20Documentation/Developer%20Notes/)

Web

<http://devworld.apple.com/dev/dnotes3.shtml>

Apple Phone Numbers

Developer Technical Support

To find out about Apple's U.S. developer technical support programs, visit <http://www.devworld.apple.com>. Also, U.S. and Canadian customers can call 1-408-974-4897 or write to the Developer Support Center, Apple Computer, Inc., 1 Infinite Loop, M/S: 303-2T, Cupertino, CA 95014.

Hardware and System Software Support

For answers to your questions about installation and set-up, and hardware and software troubleshooting,

call Apple Assurance at 1-800-SOS-APPL from the U.S. or 1-416-513-5612 from Canada.

Apple Software Licensing

For information on licensing Apple software for site, internal, or commercial distribution, call 1-512-919-2645, fax 1-512-919-2120 or write to Software Licensing, Apple Computer, Inc., 2420 Ridgepoint Drive, M/S: 198SWL, Austin, TX 78754.

Apple User Group Referral

There are more than 1,600 Apple user groups across

the U.S. To locate one near you, call 1-800-538-9696, extension 500.

Apple Authorized Dealers

Call 1-800-538-9596 to find a U.S. dealer near you.

Apple VAR Program

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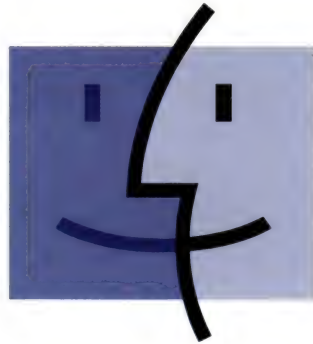
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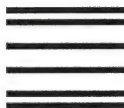
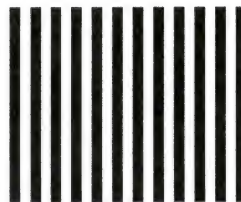
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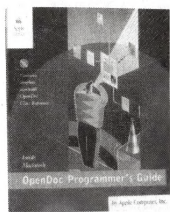
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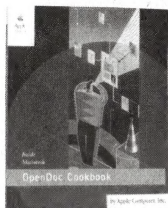
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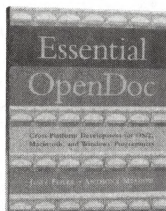
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Jesse Feiler and Anthony Meadow



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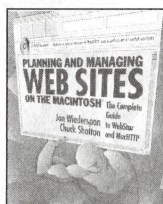
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